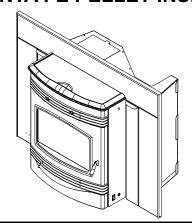
QUADRA-FIRE

SANTA FE PELLET INSERT

Owner's Manual **Installation and Operation**

Model:

SANTAFEI-B







NOTICE

DO NOT DISCARD THIS MANUAL

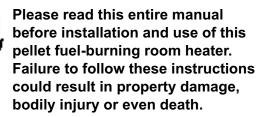


- Important operating and maintenance instructions included.
- Read, understand and Leave this manual with follow these instructions for safe installation and operation.
 - party responsible for use and operation.





▲ WARNING



- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Do not overfire If any external part starts to glow, you are overfiring. Reduce feed rate. Overfiring will void your warranty.
- Comply with all minimum clearances to combustibles as specified. Failure to comply may cause house fire.



WARNING



HOT SURFACES!

Glass and other surfaces are hot during operation AND cool down.

Hot glass will cause burns.

- Do not touch glass until it is cooled
- NEVER allow children to touch glass
- Keep children away
- CAREFULLY SUPERVISE children in same room as fireplace.
- Alert children and adults to hazards of high temperatures.

High temperatures may ignite clothing or other flammable materials.

Keep clothing, furniture, draperies and other flammable materials away.

CAUTION

Tested and approved for wood pellets and shelled field corn fuel only. Burning of any other type of fuel voids your warranty.

CAUTION

Check building codes prior to installation.

- Installation MUST comply with local, regional, state and national codes and regulations.
- Consult local building, fire officials or authorities having jurisdiction about restrictions, installation inspection, and permits.





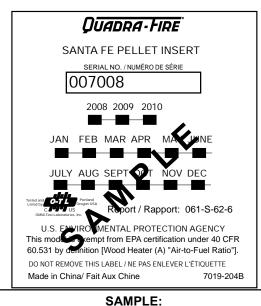
and Welcome to the Quadra-Fire Family!

Hearth & Home Technologies welcomes you to our tradition of excellence! In choosing a Quadra-Fire appliance, you have our assurance of commitment to quality, durability, and performance.

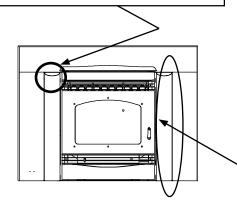
This commitment begins with our research of the market, including 'Voice of the Customer' contacts, ensuring we make products that will satisfy your needs. Our Research and Development facility then employs the world's most advanced technology to achieve the optimum operation of

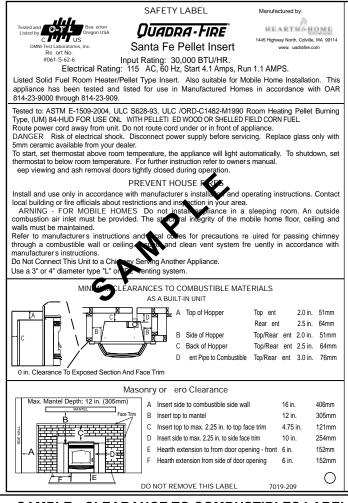
our stoves, inserts and fireplaces. And yet we are old-fashioned when it comes to craftsmanship. Each unit is meticulously fabricated and surfaces are hand-finished for lasting beauty and enjoyment. Our pledge to quality is completed as each model undergoes a quality control inspection.

We wish you and your family many years of enjoyment in the warmth and comfort of your hearth appliance. Thank you for choosing Quadra-Fire.



SERIAL NUMBER LABEL
LOCATION:
Behind left access panel.





SAMPLE: CLEARANCE TO COMBUSTIBLES LABEL LOCATION: On chain behind right access panel



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Listing and Code Approvals

A. Appliance Certification

MODEL:	Santa Fe Pellet Insert	
LABORATORY:	OMNI Test Laboratories, Inc	
REPORT NO.	061-S-62-6	
TYPE:	Solid Fuel Room Heater/Pellet Fuel Burning Type Insert	
STANDARD:	ASTM E1509-2004, ULC S628-93 and ULC/ORD-C1482-M1990 Room Heater Pellet Fuel Burning Type and (UM) 84-HUD, Mobile Home Approved	

B. Mobile Home Approved

This appliance is approved for mobile home installations when not installed in a sleeping room and when an outside combustion air inlet is provided.

The structural integrity of the mobile home floor, ceiling, and walls must be maintained. The appliance must be properly grounded to the frame of the mobile home and use only listed pellet vent, Class "L" or "PL" connector pipe.

A Quadra-Fire Outside Air Kit must be installed in a mobile home installation.

C. Glass Specifications

This appliance is equipped with 5mm ceramic glass. Replace glass only with 5mm ceramic glass. Please contact your dealer for replacement glass.

NOTE: This installation must conform with local codes. In the absence of local codes you must comply with the ASTM E1509-2004, ULC S628-93, ULC/ORD-C-1482-M1990, (UM) 84-HUD

D. Electrical Rating

115 VAC, 60 Hz, Start 4.1 Amps, Run 1.1 Amps

E. BTU & Efficiency Specifications

Particulate Emissions Rating:	.7 grams/hr
*BTU Output:	8,000 - 30,000 / hr
Heating Capacity:	up to 1,500 sq. ft. depending on climate zone
Hopper Capacity:	45 lbs
Fuel:	Wood Pellets or Shelled Corn
Shipping Weight:	214 lbs

*BTU output will vary, depending on the brand of fuel you use in your appliance. Consult your Quadra-Fire dealer for best results.

NOTE: Hearth & Home Technologies, manufacturer of this appliance, reserves the right to alter its products, their specifications and/or price without notice.



2

Getting Started

A. Design, Installation & Location Considerations

1. Appliance Location

OT Check building codes prior to installation.

- Installation MUST comply with local, regional, state and national codes and regulations.
- Consult insurance carrier, local building inspector, fire officials or authorities having jurisdiction over restrictions, installation inspection and permits.

It is a good idea to plan your installation on paper, using exact measurements for clearances and floor protection, before actually beginning the installation

Consideration must be given to:

- · Safety, convenience, traffic flow
- · Placement of the chimney and chimney connector.
- If you are not using an existing chimney, place the appliance where there will be a clear passage for a factorybuilt listed chimney through the ceiling and roof.
- Installing an optional outside air kit would affect the location of the vent termination.

Since pellet exhaust can contain ash, soot or sparks, you must consider the location of:

- Windows
- Air Intakes
- Air Conditioner
- · Overhang, soffits, porch roofs, adjacent walls
- · Landscaping, vegetation

When locating vent and venting termination, vent above roof line when possible.

Damaged parts could impair safe operation. Do NOT install damaged, incomplete or substitute components.

- TO If burning shelled field corn, you must use approved venting specifically designed for corn to prevent corrosion or degradation. Follow the instructions from the venting manufacturer.
- OT Locating the appliance in a location of considerable air movement can cause intermittent smoke spillage from appliance. Do not locate appliance near:
- Frequently open doors
- Central heat outlets or returns

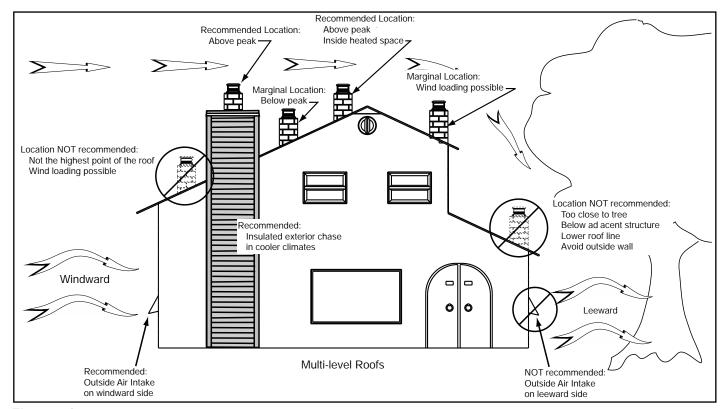


Figure 5.1



B. Locating Your Appliance & Chimney

Location of the appliance and chimney will affect performance.

- Install through the warm airspace enclosed by the building envelope. This helps to produce more draft, especially during lighting and die-down of the fire.
- Penetrate the highest part of the roof. This minimizes the effects of wind loading.
- Locate termination cap away from trees, adjacent structures, uneven roof lines and other obstructions.
- Minimize the use of chimney offsets.
- Consider the appliance location relative to floor and ceiling and attic joists.



CAUTION

- Do NOT connect this unit to a chimney flue servicing another appliance.
- Do NOT connect to any air distribution duct or system.

C. Draft

Draft is the pressure difference needed to vent appliances successfully. When an appliance is drafting successfully, all combustion byproducts are exiting the home through the chimney.

Considerations for successful draft include:

- · Preventing negative pressure
- · Location of appliance and chimney

OT Hearth & Home Technologies assumes no responsibility for the improper performance of the chimney system caused by:

- Inadequate draft due to environmental conditions
- Downdrafts
- Tight sealing construction of the structure
- Mechanical exhausting devices

D. Negative Pressure

Negative pressure can

cause spillage of combustion fumes and soot.

Negative pressure results from the imbalance of air available for the appliance to operate properly. It can be strongest in lower levels of the house.

Causes include:

- · Exhaust fans (kitchen, bath, etc.)
- · Range hoods
- Combustion air requirements for furnaces, water heaters and other combustion appliances
- · Clothes dryers
- Location of return-air vents to furnace or air conditioning
- Imbalances of the HVAC air handling system
- Upper level air leaks such as:
 - Recessed lighting
 - Attic hatch
 - Duct leaks

To minimize the effects of negative air pressure:

- Install the outside air kit with the intake facing prevailing winds during the heating season
- Ensure adequate outdoor air for <u>all</u> combustion appliances and exhaust equipment
- Ensure furnace and air conditioning return vents are not located in the immediate vicinity of the appliance
- Avoid installing the appliance near doors, walkways or small isolated spaces
- Recessed lighting should be a "sealed can" design
- · Attic hatches weather stripped or sealed
- Attic mounted duct work and air handler joints and seams taped or sealed



E. Fire Safety

To provide reasonable fire safety, the following should be given serious consideration:

- · Install at least one smoke detector on each floor of your home.
- · Locate smoke detector away from the heating appliance and close to the sleeping areas.
- · Follow the smoke detector manufacturer's placement and installation instructions and maintain regularly.
- · Conveniently locate a Class A fire extinguisher to contend with small fires.
- In the event of a hopper fire:
 - · Evacute the house immediately.
 - · Notify fire department.



WARNING

Inspect appliance and components for damage. Damaged parts may impair safe operation.

- Do NOT install damaged components.
- Do NOT install incomplete components.
- Do NOT install substitute components.

Report damaged parts to dealer.



WARNING

Fire Risk.

Hearth & Home Technologies disclaims any responsibility for, and the warranty will be voided by, the following actions:

- Installation and use of any damaged appliance.
- Modification of the appliance.
- Installation other than as instructed by Hearth & Home Technologies.
- Installation and/or use of any component part not approved by Hearth & Home Technologies.
- Operating appliance without fully assembling all components.
- Do NOT Overfire.

Or any such action that may cause a fire hazard.

F. Tools And Supplies Needed

Tools and building supplies normally required for installation, unless installing into an existing masonry fireplace:

Reciprocating Saw Safety Glasses Hammer Framing Square

Phillips Screw driver Electric Drill & Bits (1/4") 1/4" Self-Tapping Screws Tape Measure

Plumb Line

Level May also need: Framing Material Vent Support Straps

Hi-temp Caulking Material

Venting Paint

Gloves

G. Inspect Appliance & Components and **Pre-Use Check List**

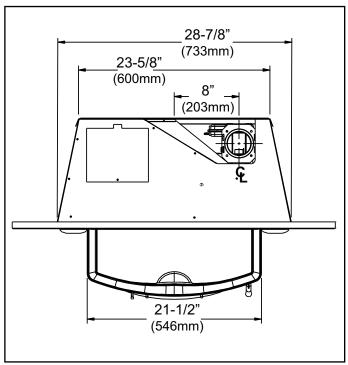
	1	
1.		Place the appliance in a location near the final installation area and follow the procedures below:
2.		Open the appliance and remove all the parts and articles packed inside the Component Pack. Inspect all the parts and glass for shipping damage. Contact your dealer if any irregularities are noticed.
3.		All safety warnings have been read and followed.
4.		This Owner's Manual has been read.
5.		Floor protection requirements have been met.
6.		Venting is properly installed.
7.		The proper clearances from the appliance and chimney to combustible materials have been met.
8.		The masonry chimney is inspected by a professional and is clean, or the factory built metal chimney is installed according to the manufacturer's instructions and clearances.
9.		The chimney meets the required minimum height.
10.		All labels have been removed from the glass door.
11.		Plated surfaces have been wiped clean, if applicable.
12.		Thermostat or remote has been installed.
13.		A power outlet is available nearby.
14.		A good quality surge protection is highly recommended to protect the electronics.



3

Dimensions and Clearances

A. Appliance Dimensions



23" (584mm) 25-3/8" (645mm) (645mm) (219mm)

Figure 8.1 - Top View

Figure 8.2 -Side View

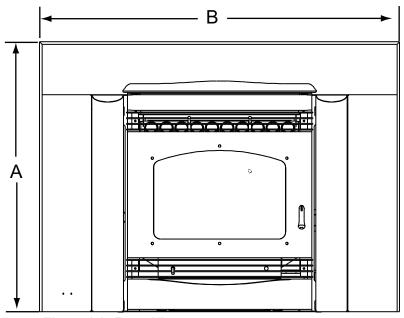


Figure 8.3- Front View

Panel	Α	В
Standard	30 inches (762mm)	40 inches (1016mm)
Large	33 inches (838mm)	50 inches (1270mm)



B. Clearance To Combustibles, UL and ULC

AS A BUILT-IN

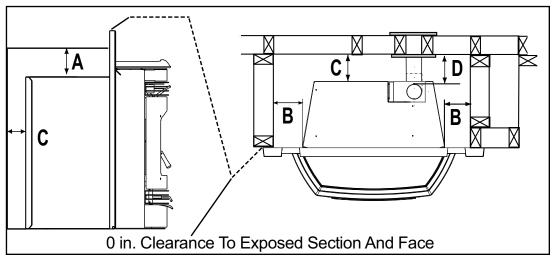
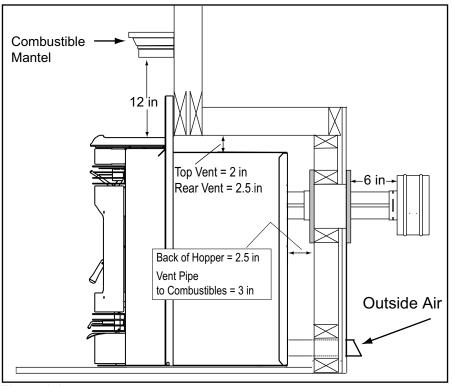
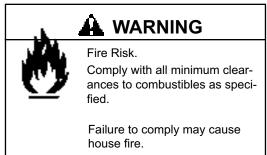


Figure 9.1

			Inches	Millimeters
Α	Top of Hopper	Top Vent	2.0	51
		Rear Vent	2.5	64
В	Side of Hopper	Top or Rear Vent	2.0	51
С	Back of Hopper	Top or Rear Vent	2.5	64
D	Vent Pipe to Combustible	Top or Rear Vent	3.0	76

INSTALLED AS A BUILT-IN UNIT Shown with Rear Vent and Optional Outside Air





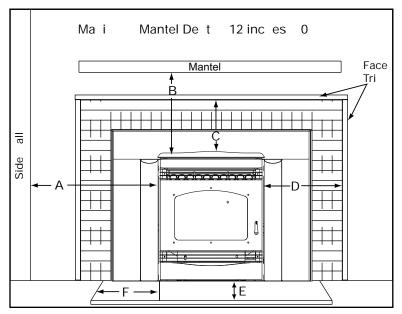
NOTE:

- Illustrations reflect typical installations and are <u>FOR DESIGN PURPOSES</u> <u>ONLY</u>.
- Illustrations/diagrams are not drawn to scale.
- Actual installation may vary due to individual design preference.

Figure 9.2



C. Masonry and Zero Clearance Fireplaces



		Inches	Millimeters
Α	Insert side to combustible side wall	16	406
В	Insert top to mantel	12	305
С	Insert top to maximum. 2-1/4 inch (57mm) face trim	4-3/4	121
D	Insert side to maximum. 2-1/4 inch (57mm) face trim	10	254

Figure 10.1

D. Floor Protection

		Inches	Millimeters
E	Floor protection hearth extension from door opening	6	152
F	Floor protection to the side of door opening	6	152

E. Minimum Opening for Masonry and Zero Clearance Fireplaces

	Location	Inches	Millimeters
Α	Rear Width	24	610
В	Depth	16	406
С	Height	23-1/4	591
D	Front Width	29-1/4	743

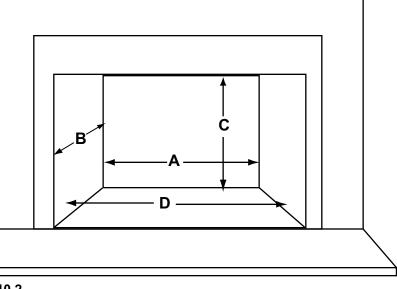


Figure 10.2

F. Removing Metal Floor of Factory-Built Firebox

- The firebrick (refractory), glass doors, screen rails, screen mesh and log grates can be removed from a factory-built firebox in order to gain minimum insert opening requirements.
- Any smoke shelves, shields and baffles may be removed from a factory-built firebox <u>if attached with mechanical fas-</u> teners.
- The metal floor of the factory-built firebox may be removed to facilitate the installation of the insert only when a 1/4 (6mm) inch airspace is provided between the insert and the floor of outer wrap.

The following is only one example as there are many different models of factory-built fireplaces.

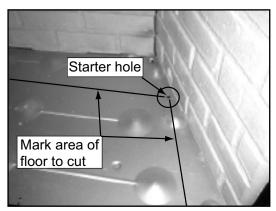


Figure 11.1. Measure and mark the metal floor for cutting. With a drill, make a starter hole in each corner.



Figure 11.2. Using a saws-all, cut out the floor.

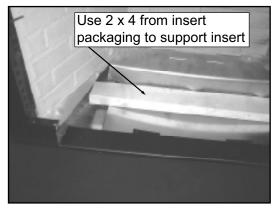


Figure 11.3. If the floor is made of thin metal, we recommend using the 2×4 from the insert packaging to support the insert. The 2×4 may need to be cut to the appropriate size.

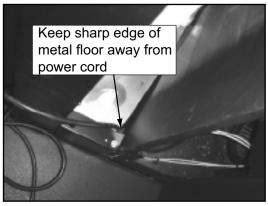


Figure 11.4. Place the insert into the factory-built firebox. Ensure that the power cord can not be damaged by the sharp metal edge. You may need to cut out a notch to accommodate the cord.

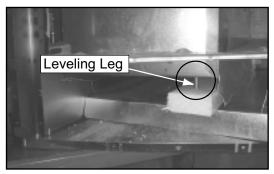


Figure 11.5. Ensure that the leveling leg is positioned over the 2 x 4 before leveling the insert.





Vent Information

A. Chimney and Exhaust Connection

- 1. Chimney & Connector: Use 3 or 4 inch (76-102mm) diameter type "L" or "PL" venting system. It can be vented vertically or horizontally.
- 2. Mobile Home: Approved for all Listed pellet vent. Use Listed double wall flue connector. A Quadra-Fire outside air kit must be used with manufactured home installations.
- 3. Residential: Use 24 gauge single wall flue connector or Listed double wall flue connector to Class A Listed metal chimneys, or masonry chimneys meeting International Building Code (ICC) standards for solid fuel appliances.
- 4. INSTALL VENT AT CLEARANCES SPECIFIED BY THE VENT MANUFACTURER.
- 5. Secure exhaust venting system to the appliance with at least 3 screws. Also secure all connector pipe joints with at least 3 screws through each joint.

NOTE: All pipe must be welded seam pipe whenever possible. Seal pipe joints with high temperature silicone (500°F [260°C] minimum rated only).

NOTE: If burning shelled field corn, you must use approved venting specifically designed for corn. Follow the instructions from the venting manufacturer.



👫 WARNING

Fire Risk.

- Only LISTED venting components may be
- NO OTHER vent components may be used. Substitute or damaged vent components may impair safe operation.



WARNING



Vent surfaces get HOT, can cause burns if touched. Non-combustible shielding or guards may be required.

B. Venting Termination Requirements

CAUTION

Do not terminate vent in any enclosed or semi-enclosed area such as a carport, garage, attic, crawl space, under a sun deck or porch, narrow walkway or closely fenced area, or any location that can build up a concentration of fumes such as a stairwell, covered breezeway, etc.

- 1. Termination must exhaust above air inlet elevation. It is recommended that at least 60 inches (1524mm) of vertical pipe be installed when appliance is vented directly through a wall. This will create a natural draft, which will help prevent the possibility of smoke or odor venting into the home during a power outage. It will also keep exhaust from causing a nuisance or hazard by exposing people or shrubs to high temperatures. The safest and preferred venting method is to extend the vent vertically through the roof.
- Distance from doors and opening windows, or gravity or ventilation air inlets into building:
 - a. Not less than 48 inches (1219mm) below;
 - b. Not less than 48 inches (1219mm) horizontally from:
 - Not less than 12 inches (305mm) above.
- Distance from permanently closed windows:
 - a. Not less than 12 inches (305mm) below, horizontally from or above.
- Distance between bottom of termination and grade should be 12 inches (305mm) minimum. This is conditional upon plants in the area, and nature of grade surface. The grade surface must be a non-combustible material (i.e., rock, dirt). The grade surface must not be lawn. Distance between bottom of termination and public walkway should be 84 inches (2134mm) minimum.
- Distance to combustible materials must be 24 inches (610mm) minimum. This includes adjacent buildings, fences, protruding parts of the structure, roof overhang, plants and shrubs, etc.
- 6. Termination Cap Location (Home Electrical Service)
 - Side-to-side clearance is to be the same as minimum clearance to vinyl inside corners.
 - Clearance of a termination cap below electrical service shall be the same as minimum clearance to vinyl sof-
 - Clearance of a termination cap above electrical service will be 12 inches (305mm) minimum.
 - Location of the vent termination must not obstruct or interfere with access to the electrical service.



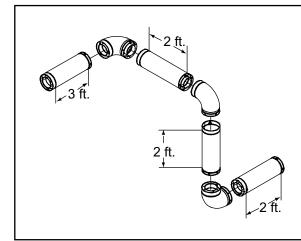
C. Equivalent Feet of Pipe

The table below can help you calculate the equivalent feet of pipe which is a method used to determine pellet vent size. **Figure 13.1.**

A WARNING

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the owner's information manual provided with this appliance. For assistance or additional information consult a qualified installer, service agency or your dealer.

Example of 3 Elbow-Rear Vent Termination Calculation



Pellet Venting Component	# of Elbows	Feet of Pipe	Multiplied By	Equivalent Feet	Components Equivalent Feet
90° Elbow or Tee	3		Х	5	15
45° Elbow			Х	3	
Horizontal Pipe		7	Х	1	7
Vertical Pipe		2	Х	0.5	1
		_	Total For	iivalent Feet	23

Note: This is a generic example and is not intended to represent any specific fuel type.

Figure 13.1

D. Pipe Selection Chart

The chart will help you in determing proper venting size according to the equivalent feet of pipe calcuated above and the altitude above sea level of this installation. **Figure 13.2.**

Locate the calculated equivalent feet of pipe on the vertical left side of the chart. Move to the right horizontally on the chart until you reach your altitude above sea level.

If you fall below the diagonal line, 3 or 4 inch (76 to 102mm) pipe may be used. If it is anywhere above the diagonal line, a 4 inch (102mm) diameter pipe is required.

The chart reveals that a 90° elbow is 5 times as restrictive to the flow of exhaust gases under positive pressure as 1 foot of horizontal pipe, and a foot of horizontal pipe is twice as restrictive as a foot of vertical pipe.

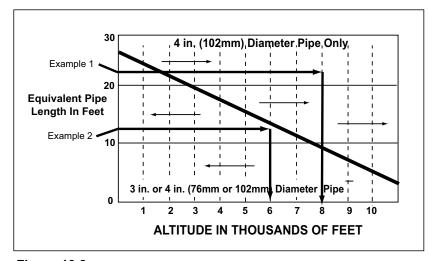


Figure 13.2

Example 1: If the equivalent length of pipe is 23 feet with altitude of 8,000 feet you must use 4 inch (102mm) diameter type "L" or "PL" vent

Example 2: If the equivalent length of pipe is 12 feet with altitude of 6,000 feet you may use 3 or 4 inch (76 to 102mm) diameter type "L" or "PL" vent

Venting Systems

A. Direct Connect With Outside Air

B. Direct Connect Without Outside Air

NOTE: In Canada, only a full reline is allowed per ULC S-628-93, ORD ULC C1482-M1990.

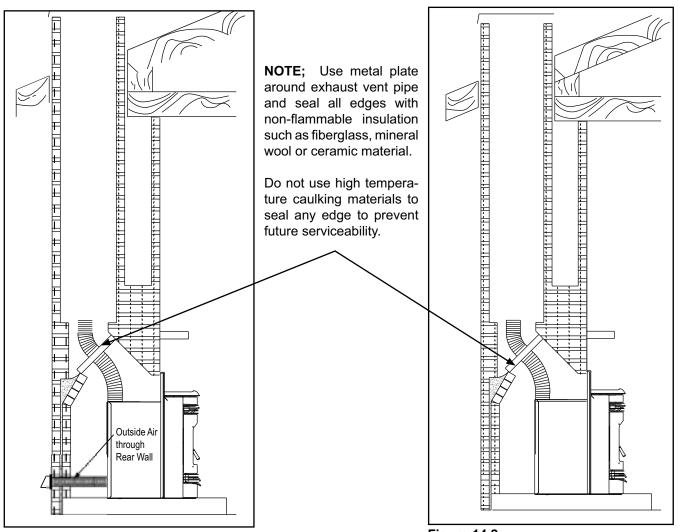


Figure 14.1

NOTE:

- Illustrations reflect typical installations and are <u>FOR</u> <u>DESIGN PURPOSES ONLY</u>.
- Illustrations/diagrams are not drawn to scale.
- Actual installation may vary due to individual design preference.

CAUTION

Never draw outside combustion air from:

- · Wall, floor or ceiling cavity
- · Enclosed space such as an attic or garage





WARNING

Fire Risk.

Inspection of Chimney:

- Masonry chimney must be in good condition.
- Meets minimum standard of NFPA 211
- Factory-built chimney must be 6 inch (152mm) UL103 HT.

NOTE:

In Canada, where passage through a wall or partition of combustible construction is desired, the installation shall conform to CAN/CSA-B365.



C. Full Reline With Outside Air

NOTE: Check clearances carefully for this type of installation to ensure adequate room for outside air venting.

CAUTION

Check building codes prior to installation.

- Installation MUST comply with local, regional, state and national codes and regulations.
- Consult local building, fire officials or authorities having jurisdiction about restrictions, installation inspection, and permits.

Side view of Santa Fe Insert with side panel removed.



Figure 15.1



Figure 15.2

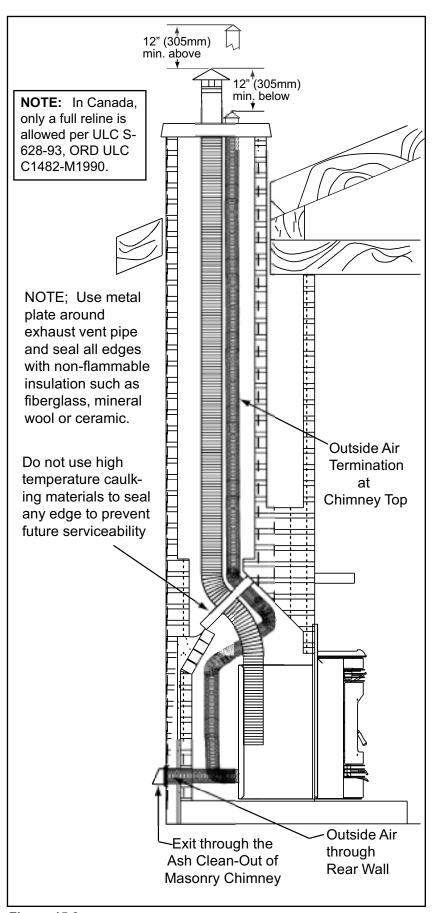


Figure 15.3



6 Mobile Home

A. Mobile Home Installation

You must use a Quadra-Fire Outside Air Kit for installation in a mobile home.

- An outside air inlet must be provided for the combustion air and must remain clear of leaves, debris, ice and/or snow. It must be unrestricted while the appliance is in use to prevent room air starvation which causes smoke spillage. Smoke spillage can also set off smoke alarms.
- The combustion air duct system must be made of metal. It must permit zero clearance to combustible construction and prevent material from dropping into the inlet or into the area beneath the dwelling and contain a rodent screen.
- The appliance must be secured to the mobile home structure by bolting it to the floor (using lag bolts). Use the same holes that secured the appliance to the shipping pallet.
- 4. The appliance must be grounded with #8 solid copper grounding wire or equivalent, terminated at each end with an NEC approved grounding device.
- 5. Refer to clearances to combustibles and floor protection requirements on **pages 9 & 10** for listings to combustibles and appropriate chimney systems.
- 6. Use silicone to create an effective vapor barrier at the location where the chimney or other component penetrates to the the exterior of the structure.
- 7. Follow the chimney manufacturer's instructions when installing the vent system for use in a mobile home.
- 8. Installation shall be in accordance with the Manufacturers Home & Safety Standard (HUD) CFR 3280, Part 24.

WARNING

Installation must comply with Manufactured Home and Safety Standard (HUD), CFR 3280, Part 24.

A WARNING

Never install in a sleeping room.

CAUTION

Maintain structural integrity of mobile home:

• Floor, wall, ceiling and/or roof.

Do NOT cut through:

- Floor joist, wall studs or ceiling trusses.
- Any supporting material that would affect the structural integrity.

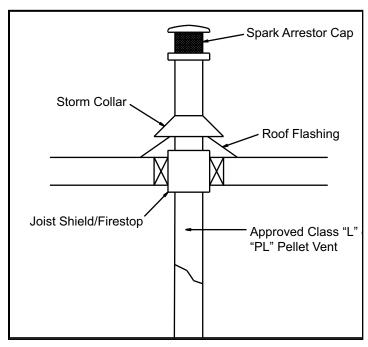


Figure 16.1





Appliance Set-Up

A. Leveling System

The leveling bolts are located at the rear of the appliance. To access the bolts, remove the front access panels. Reach in and turn the bolt to the desired height to level the appliance.

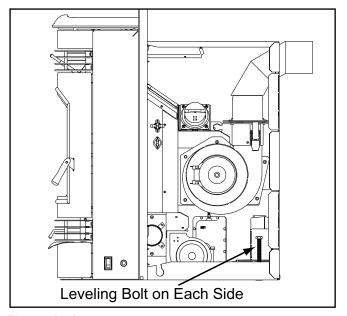


Figure 17.1

B. Outside Air Kit Instructions

Parts Included in Kit: 1 piece of 2 inch x 3 ft. flex hose, 2 hose clamps, 1 collar assembly, 1 termination cap assembly, 1 trim ring, fasteners.

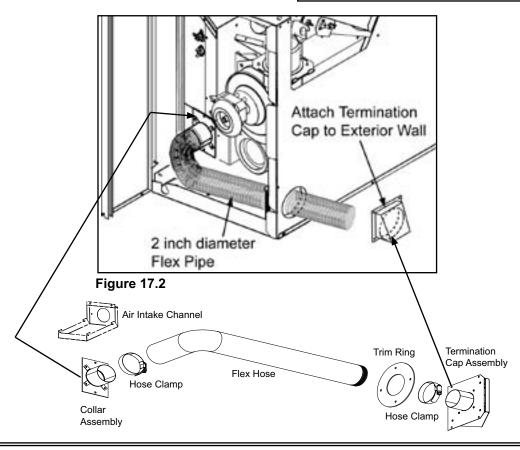
<u>Tools Needed:</u> Phillips head screwdriver; wire cutters; hole saw or jig saw.

- Measure distance from floor to air vent opening in appliance and mark location on wall.
- 2. Use saw to cut opening in wall. Cut a 2-1/2 to 3 inch (64-76mm) opening on inside wall and a 3 to 3-1/2 inch (76-89mm) opening on outside of house.
- 3. Use hose clamp to secure flex pipe to collar assembly.
- 4. Slide trim ring over flex pipe and run pipe through wall.
- 5. Attach hose to outside termination cap with second hose clamp.
- 6. Secure termination cap to outside surface.
- 7. Secure trim ring to interior wall.

CAUTION

Never draw outside combustion air from:

- · Wall, floor or ceiling cavity
- · Enclosed space such as an attic or garage





C. Optional Grille Removal and Installation

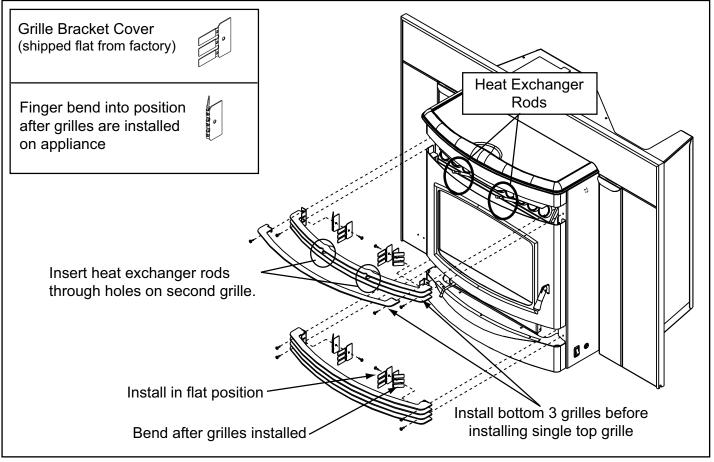


Figure 18.1

<u>Included in Kit</u>: (4) lower grilles; (3) upper grilles, (1) upper grille; (4) grille bracket covers; fasteners

Tools Required: #2 Phillips head screwdriver

- Open the door. Remove the top 2 screws on each side of upper grille and remove the single grille. Remove the bottom 2 screws on each side and remove the 3 grilles attached together.
- Removing the ash drawer before taking off the lower grille will make the lower grille easier to remove. Using a Phillips head screwdriver, remove the 2 screws on each side and pull forward with a downward motion to avoid catching the grille on the firepot pull rod.
 - NOTE: The plated grilles, Nickel, Black Nickel and Gold, have 4 black grille bracket covers to eliminate the brightness of the bracket plating. The bracket covers are shipped flat, installed on the grilles, and after the grilles are installed on the appliance they are then finger-bent into position.
- 4. Attach the 4 grille bracket covers to the lower 4 grilles and the top 3 grilles. Slip the metal strips through the grille openings and secure to grille with screws provided. Do not finger bend the cover brackets at this time.

- 5. Secure the lower grille to the appliance with 2 screws on each side. Finger bend the bracket covers around the plated brackets.
- 6. The upper grille has 2 separate parts. Install the 3 grilles attached together first. Angle the grilles downward and insert the heat exchanger cleaning rods through the holes in the second grille and then twist forward until horizontally level. Attach the grille with only the bottom 2 screws on each side of grille. Do not finger bend the cover brackets at this time.
- 7. Position the single top grille over the 3 already in place. Attach with one screw on each side through the top grille and the other 3 grilles to secure to appliance.
- 8. Finger bend the bracket covers on the upper grille into place.
- 9. Re-install the ash drawer.



D. Door Handle Removal

Tools Requied: 5/32 Allen wrench

NOTE: The door handle must be removed before the trim ring can be installed.

- Open the door. Using a 5/32 Allen wrench, loosen set screw by a couple of turns, but do not remove.
 Figure 19.1.
- 2. Push the pin completely out and remove the handle.
- 3. Re-install in reverse order.

E. Door Trim Installation

Tools Required: Phillips head screwdriver. (A stubby screwdriver required if door is still installed on the insert).

- 1. Remove the door handle first by following the instructions above. Using a Phillips head screwdriver, remove the 2 screws on the top and bottom of the face. **Figure 19.1.**
- 2. Pull the face away from the door by rotating the face toward you from the hinge side first. Carefully push the door handle through the opening on the face.
- 3. Lay the face (face up) on a protected surface to avoid scratching the trim when installing it in step 5.
- 4. Line up the studs on the trim with the holes in the face and push studs into the holes.
- 5. Turn the face and trim over. Secure with 6 nuts provided. Do not overtighten.
- Thread the door handle through the face opening and insert the pin through the door handle and door latch. Re-tighten the set screw.
- Re-attach to the door using the same 4 screws previously removed.

F. Door Removal

- Remove the door handle and face. Follow instructions from D and E above.
- 2. The door can now be lifted off the hinges.
- 3. Re-install in reverse order.

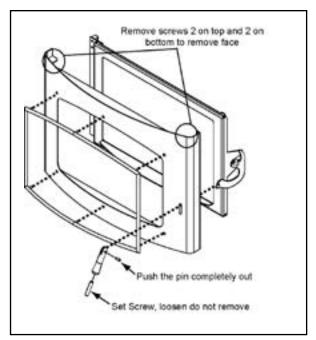


Figure 19.1



G. Adjustable Hearth Support

Size: 9"d x 45"w, 2" to 10" Height Adjustment

Included in Kit: (1) trim top, (1) trim front, (2) trim sides, double-sided tape (already installed)

Tools Needed: Phillips head screwdriver, sheet metal shears, measuring tape, gloves

- 1. The 10 screws on each set of scissors will already be loose when shipped. **Figure 20.1.**
- Expand scissors to desired height. Tighten screws to hold in place using Phillips head screwdriver. Figure 20.2.
- Measure front and side trims to required height to cover scissors and mark pieces for cutting. Cut excess material from <u>top</u> of trim's edge, not bottom. This edge will be sharp; wear gloves to prevent injury to your hands. Figure 20.3.
- 4. Using sheet metal shears, cut trim along the marked edge. The cut edge fits under lip of top trim, so it allows for some variance in your straight edge.
- 5. The double-sided tape that holds front and side trims to scissors has a powerful bonding adhesive. Adjustments are extremely difficult once trim has adhered to tape. Do a dry run first without removing paper from tape.
- Place cut edge of trim under top lip and into position on scissors. Place side pieces on first and then front piece. The front piece overlaps side pieces.
- Once you are satisfied with the positioning, remove trim and set aside.
- Remove the paper from double-sided tape that is to accept trim side. Align side and then press hard against tape to secure side piece. Repeat for other side. Install front trim piece last.
- There are 3 holes in the back flange of the top to secure it to the wall if necessary. Use the appropriate fastener for the type of wall material, i.e., brick, sheetrock, etc.

NOTE: 3/8 inch (9.5mm) thick tile or like material can be cut to size and fit under lip of top trim edge for a decorative touch. **Figure 20.3.**



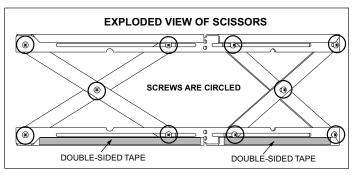


Figure 20.1

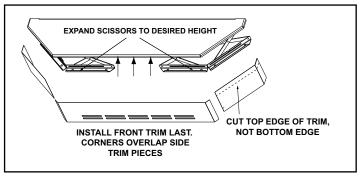


Figure 20.2

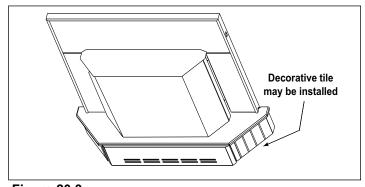


Figure 20.3

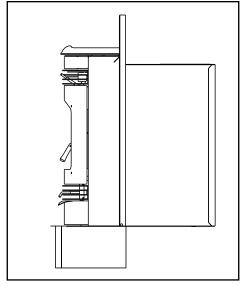


Figure 20.4



H. Panel and Trim Set

- 1. Lay panel top and legs face down on protective covering to prevent scratching.
- 1. Attach the panel legs to the top panel using a Phillips head screwdriver. There are 2 screws for each leg. **Figure 21.2.**
- Open the hopper lid by pulling toward you. This will make it easier to set the panels in place. Secure the panels to the insert, 2 screws per leg, as shown in Figure 21.3.
- 3. Connect the trim pieces together using the "L" Brackets supplied. **Figure 21.4.**
- 4. Slide the trim over the top of the panels.
- 5. Install the access panels. At the bottom of the access panel there are 2 hooks that slip into a slot at the bottom of the side panel and a magnet at the top that holds the access panel in place. **Figure 21.3.**

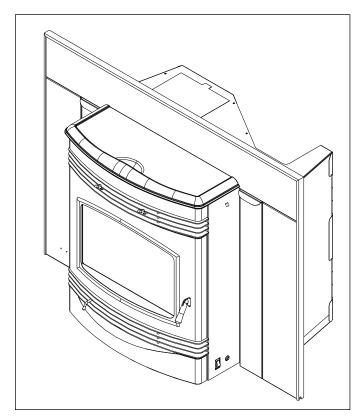


Figure 21.1- Completed View

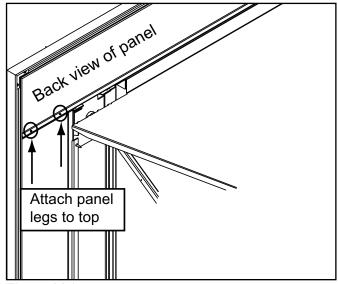


Figure 21.2

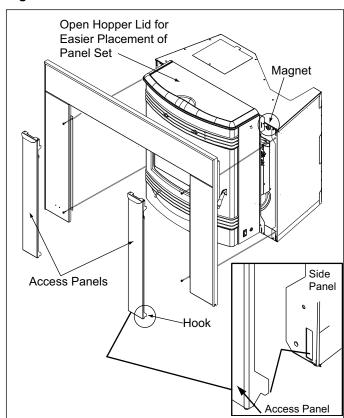


Figure 21.3

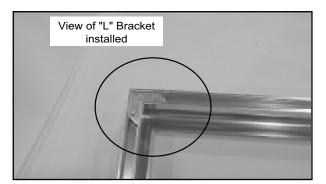


Figure 20.4

I. Optional Log Set Placement Instructions

CAUTION

Logs are FRAGILE. Use extreme care when handling or cleaning logs.

Four Piece Log Set Installation

- 1. Open door to expose the firebox.
- 2. Positioning the logs.

Place the right rear log as shown. There is a notch in the bottom of the log for clearance for the thermocouple and thermocouple cover (ceramic protection tube). **Figure 22.1.**

Continue placing the last 3 logs around the firepot as show in **Figures 22.2, 22.3** and **22.4**. Be careful not to block the drop tube in the back of the firebox where pellets feed into the firepot.

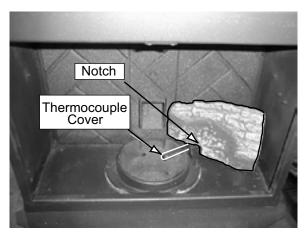


Figure 22.1

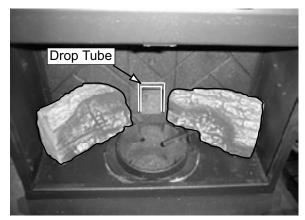


Figure 22.2

NOTE:

Due to the abrasive nature of a pellet appliance fire, the logs are not covered under warranty. Any placement variation other than shown here can cause excessive heat and shall void the appliance warranty.

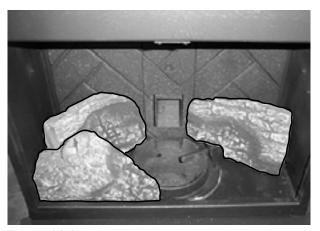


Figure 22.3

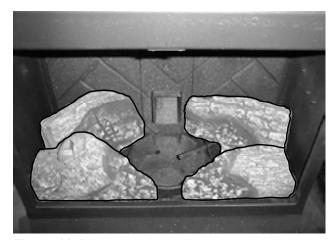


Figure 22.4

Optional Firepot Top Log Installation

Place the log over the firepot. The charred area on the log is turned toward the back, not the front

The log will be about 2-1/2 inches (64mm) above the firepot when in place. It must rest on the 3 logs in a stable position to prevent it from falling into the firepot. **Figure 21.5.**

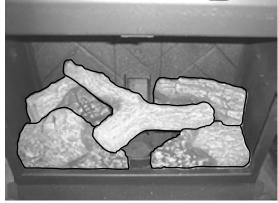


Figure 22.5



J. Thermostat Installation

 A 12 volt AC thermostat is required to operate this pellet appliance. You may use the included wall mount thermostat or purchase an optional programmable thermostat or remote control.

The included thermostat is equipped with an adjustable heat anticipator. The current rating is .05 amps. The anticipator needs to be adjusted to the lowest setting available.

When mounting a thermostat on a wall, be sure to follow your thermostat installation instructions carefully.

NOTE: Thermostat must be mounted level for accurate readings. The thermostat should be mounted on an inside wall and not in direct line with the appliance convection air. Remove any packaging from inside the thermostat before using.

NOTE: If the thermostat is located too close to the appliance, you may need to set the temperature setting slightly higher to maintain the desired temperature in your home.

3. There is a 4 screw terminal block located on the junction box to the right of the power cord inlet. The center 2 screws are for the thermostat wires. The outer 2 are the mounting screws for the terminal block. **Figure 23.1.**

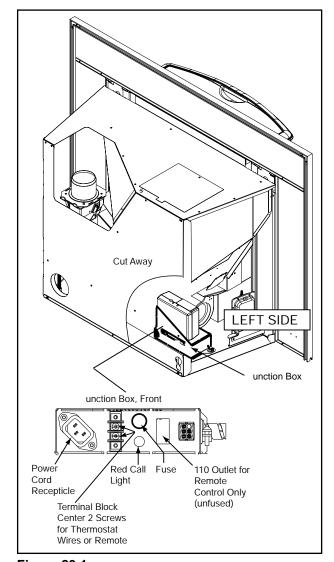


Figure 23.1



AL CAUTION

Shock hazard.

- Do NOT remove grounding prong from plug.
- Plug directly into properly grounded 3 prong receptacle.
- · Route cord away from appliance.
- Do NOT route cord under or in front of appliance.



The 110 outlet on the junction box is for a remote control ONLY. Do not use outlet for any other purpose. It can damage the appliance and it will void your warranty.





Operating Instructions

A. Fuel Size And Material

1. Wood Pellets

Fuel pellets are made from sawdust or wood by-products. If the source material is hardwood, they can have a higher mineral content, creating more ash. Fuels containing bark will also have higher ash content. Minerals and other non-combustible materials such as sand will turn into a hard, glass-like substance called a clinker when heated to the extreme temperatures our firepot reaches. This is what forms clinkers in the bottom of the firepot. Trees from different areas will vary in mineral content. That is why some fuels produce more clinkers than others. Pellets are manufactured in either 1/4 inch or 5/16 inch (6-8mm) diameter and should be no more than 1-1/2 inches (38mm) in length. Pellet lengths may even vary by lot from the same manufacturer which is why the feed rate may need to be adjusted occasionally. If you burn pellets longer than 1-1/2 inches (38mm) you may have an inconsistent fuel feed rate and/or missed ignitions.

Pellet fuel quality can greatly fluctuate. We recommend using premium grade fuel with ash content less than 1%. Even in some fuel labeled "premium" ash content can vary from bag to bag and possibly exceed 1%. High ash fuel, or lack of maintenance, can cause the firepot to fill up and thus create a potential for smoking, sooting and possible hopper fires.

Always burn dry fuel. Burning fuel with high moisture content takes heat from the fuel and tends to cool the appliance, robbing heat from your home. Damp pellet fuel can clog the feed system.

We recommend that you buy fuel in multi-ton lots whenever possible. Buying large quantities of fuel at once will greatly reduce the number of times the feed adjustments will need to be made. However, we do recommend trying various brands before purchasing multi-ton lots to ensure your satisfaction.



WARNING



- Fire Risk.
- High ask fuels, or lack of maintenance, can cause the firepot to fill with ash and clinker. If the firepot fills to the top, immediately shut down the appliance and clean.
- Failure to do so could result in smoking, sooting and possible hoper fires.

2. Shelled Field Corn

Shelled field corn can be an efficient and economical fuel. We recommend using a 50-50 blend of corn and wood pellets. The only change in operation; 1) the feed rate may require a slight adjustment and 2) firepot will require more frequent cleanings. The BTU output varies slightly compared to pellets, depending on the quality of the corn used. In cases where it is acceptable for the appliance to run full time, 100% corn will work after the fire has been started using wood pellets.

B. General Operating Information

1. Thermostat Calls For Heat

The appliance is like most modern furnaces; when the thermostat calls for heat, your appliance will automatically light and deliver heat. When the room is up to temperature and the thermostat is satisfied, the red call light will shut off and the appliance will shut down. The red call light is located behind the left access panel.

2. Heat Output Controls

This appliance is equipped with a heat output control switch that has three settings or burn rates; low, medium and high. The appliance will turn on and off as the thermostat demands. When the thermostat calls for heat, the appliance will always start up on High. After burning approximately 4 minutes, the appliance will then burn at the rate at which it was originally set. If the appliance is set at one of the lower settings, it will run quieter but takes longer to heat up an area than if it were set at a higher burn rate. Regardless of the burn rate, when the area is warm enough to satisfy the thermostat, the appliance will shut off.

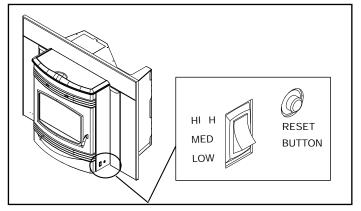


Figure 24.1



WARNING

Fire Risk.

Keep combustible materials, gasoline and other flammable vapors and liquids clear of appliance.

- Do NOT store flammable materials in the appliance's vicinity.
- Do NOT use gasoline, lantern fuel, kerosene, charcoal lighter fluid or similar liquids to start or "freshen up" a fire in this heater.
- Keep all such liquids well away from the heater while it is in use.
- · Combustible materials may ignite.



C. Before Your First Fire

- First, make sure your appliance has been properly installed and that all safety requirements have been met. Pay particular attention to the fire protection, venting and thermostat installation instructions.
- 2. Double check that the ash drawer and firebox are empty!
- 3. Check the position of the thermocouple, located above the firepot, and make sure that it protrudes approximately 3/4 inch (19mm) into the firepot.
- 4. Close the front door.

CAUTION

Tip of thermocouple must be in contact with the inside end of the thermocouple cover.

Missed ignitions can occur.

D. Starting Your First Fire

- A thermostat is required for proper operation of this appliance, except for corn. At this time, fill the hopper with pellets, set the thermostat to its lowest setting. Plug the power cord into nearby outlet.
- 2. The exhaust blower will stay on for approximately 18 minutes even though the thermostat is not calling for heat. This is normal.
- 3. Locate the heat output control switch on the lower right side of the firebox in front of the right access panel. Set to the HIGH setting and then adjust the thermostat to its highest setting. The red call light will be on which is located on the front of the junction box behind the left access panel. This indicates the thermostat is calling for heat. Figure 25.1.
- 4. The fuel feed system and the igniter should now be on.
- 5. For your first fire it will be necessary to press the reset button once a minute until pellets start to drop into the firepot, then press button 1 more time. This will fill the feed system and allow the appliance to begin dropping pellets. The appliance will continue to run as long as the thermostat is calling for heat.
- Once the appliance has ignited, let it burn for approximately 15 minutes, then set the thermostat to the desired room temperature. Adjust the heat output control switch to the desired setting.

E. Fire Characteristics

A properly adjusted fire with the heat output control button set on "HIGH" has a short active flame pattern that extends out of the firepot approximately 4 inches (102mm). If the fire has tall flames with black tails and seems somewhat lazy, the feed rate will need to be reduced. If the fire is not 4 inches (102mm) tall, increase the feed rate. A medium and low setting will give a shorter flame. The flame will rise and fall somewhat. This is normal.

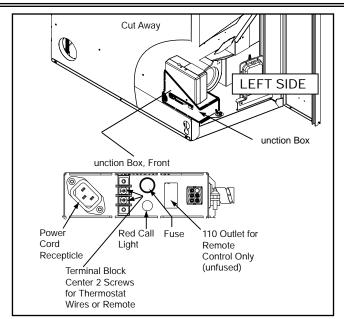


Figure 25.1

F. Feed Rate Adjustment Instructions

The feed adjustment control rod is factory set, and should be adequate for most fuels. The set screw is located at the bottom of the hopper and <u>set loose at the factory</u> so the fuel adjustment control rod will slide by only loosening the wing nut. Do not re-tighten bottom set screw.

However, if the flame height is too high or too low, you will need to adjust the feed rate. Wait until the appliance has been burning for 15 minutes before making your adjustments and allow 15 minutes for feed adjustment to take effect. Make adjustments in approximately 1/2 inch increments.

- 1. Loosen the wing nut. Figure 25.2.
- Adjust the fuel adjustment control rod towards the "+" symbol to increase the feed rate and flame height or towards the "-" symbol, to decrease the feed rate and flame height.
- 3. Re-tighten the wing nut.

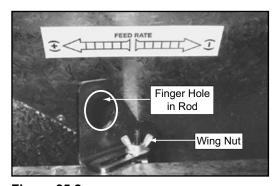


Figure 25.2



G. Ignition Cycles

- 1. During each ignition cycle, it is normal to see some smoke in the firebox. The smoke will stop once the fire starts.
- 2. The convection blower will automatically turn on after your appliance has reached the set temperature. This blower transfers heat from your appliance into the room, and will continue to run after the thermostat has stopped calling for heat until the appliance has cooled down.
- 3. Occasionally the appliance may run out of fuel and shut itself down. When this happens, the red call light will be on. To restart it, fill the hopper and press the reset button. When you press the reset button the red call light will go out. Release the button and the light will come back on. You should see a fire shortly. If not, follow the instructions on page 25, "Starting Your First Fire".

CAUTION

Odors and vapors released during initial operation.

- Curing of high temperature paint.
- Open windows for air circulation.

Odors may be irritating to sensitive individuals.



WARNING



Fire Risk

Do NOT operate appliance:

- · With appliance door open.
- Firepot floor open.
- Cleaning slide plates open.

Do NOT store fuel:

- Closer than required clearances to combustibles to appliance
- Within space required for loading or ash removal.

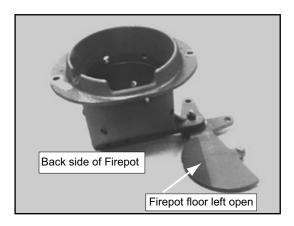


Figure 26.1 - DO NOT LEAVE FIREPOT FLOOR OPEN

H. Frequently Asked Questions

	ISSUES		SOLUTIONS
1.	Metallic noise.	1.	Noise is caused by metal expanding and contracting as it heats up and cools down, similar to the sound produced by a furnace or heating duct. This noise does not affect the operation or longevity of your appliance.
2.	Ash buildup on glass.	2.	This is normal. Clean the glass.
3.	Glass has turned dirty.	3.	Excessive build up of ash. The lower burn settings will produce more ash, the higher burn settings produce less. The more it burns on low the more frequent cleaning of the glass is required.
4.	Fire has tall flames with black tails and is lazy.	4.	The feed rate needs to be reduced or the firepot needs cleaning. Heat exchanger or exhaust blower needs cleaning.
5.	Smokey start-up or puffs of smoke from the airwash.	5.	Either the firepot is dirty or there is too much fuel at start-up and not enough air. Close down feed rate 1/4 (6mm) inch at a time until this no longer happens.
6.	Large flame at start-up.	6.	This is normal. Flame will settle down once the fire is established.



Troubleshooting

With proper installation, operation, and maintenance your appliance will provide years of trouble-free service. If you do experience a problem, this troubleshooting guide will assist a qualified service person in the diagnosis of a problem and the corrective action to be taken. This troubleshooting guide can only be used by a qualified service technician.

Symptom	Possible Cause	Corrective Action			
Plug in appliance - No	No current to outlet.	Check circuit breaker at service panel.			
response.	7 amp fuse defective.	Replace fuse.			
	#3 snap disc tripped or defective.	Reset or replace snap disc.			
	Control box defective.	Replace control box.			
Call light on. No fire.	Out of fuel.	Check hopper. Fill with fuel.			
No fuel in firepot.	#2 snap disc may be defective.	Replace snap disc.			
	Vacuum switch not closing, no vacuum.	Check exhaust blower is plugged in and operating. Check vacuum switch is plugged in. Check vacuum hose is in good condition, clear and connected at both ends. Check thermocouple is in good condition and plugged in properly. Make sure venting system is clean. Make sure front door is closed.			
	Control box defective.	Replace control box.			
Call light on. No fire. Partially burned fuel in firepot.	Firepot clean-out plate not closed.	Check that firepot clean-out plate is fully closed.			
	Firepot is dirty (missed ignition).	Clean firepot. Make sure there is no clinker in the firepot.			
		Clinkers may have to be broken up with firepot clean-out tool or other means.			
Call light on. No fire. Unburned pellets in firepot.	Firepot clean-out plate not closed.	Check that firepot clean-out plate is fully closed.			
	Firepot is dirty.	Clean firepot. Make sure there is not a clinker in the firepot. Clinkers may have to be pushed out of firepot with firepot clean-out tool or other means.			
	Ignition hole blocked.	Scrape with solid piece of wire.			
	Igniter not working.	Remove ash drawer to see if igniter is glowing red on start-up. Check igniter wires for good connection. Replace igniter using 1/4 inch (6mm) male /female spade connectors.			
	Control box defective.	Replace control box.			
Slow or smoky start-up.	Firepot clean-out plate not closed.	Check that firepot clean-out is fully closed.			
	Firepot is dirty.	Clean firepot. Make sure there is not a clinker in the firepot. Clinkers may have to pushed out of firepot with firepot clean-outtool or other means.			
	Excessive amount of fuel at start-up.	Reduce feed rate using feed rate adjustment control rod located inside hopper.			

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Symptom	Possible Cause	Corrective Action		
Slow or smoky start-up (Cont'd)	Dirty exhaust and/or venting system.	Check for ash build up in appliance, including behind rear panels, firebox, heat exchanger, exhaust blower and venting.		
Feed system fails to	Out of fuel.	Check hopper, fill with fuel.		
start.	#2 snap disc may be defective.	Replace snap disc. Firebox door must be closed securely.		
	Vacuum switch not closing. No vacuum.	Check exhaust blower is plugged in and operating. Check vacuum switch is plugged in. Check vacuum hose is in good condition, clear and connected at both ends. Check thermocouple is in good condition and plugged in properly. Make sure venting system is clean. NOTE: High winds blowing into the venting system can pressurize the firebox causing loss of vacuum.		
	Feed system jammed or blocked.	Empty hopper of fuel. Use a wet/dry vacuum cleaner to remove remaining fuel, from hopper, including feed tube. Check feed chute for obstructions. Loosen 2 screws and jiggle feed assembly.		
	Feed spring not turning with feed motor.	Check that set screw is tight on feed spring shaft at end of feed motor.		
	Feed motor defective or not plugged in.	Check connections on feed motor, replace if defective.		
No call light. Appliance does not begin start	Thermostat not set to a high enough temperature.	Adjust thermostat above room temperature.		
sequence.	Snap Disc #3 tripped.	Reset snap disc.		
	No power.	Connect to power.		
	Fuse blown.	Replace fuse.		
	Connections at thermostat and/or appliance not making proper contact.	Check connections at thermostat and appliance.		
	Defective thermostat or thermostat wiring.	Replace thermostat or wiring. NOTE: To test thermostat and wiring, use a jumper wire at the thermostat block on the appliance to by-pass thermostat and wiring.		
	Control box defective.	Replace control box.		
Appliance fails to shut off.	Call light on.	Turn thermostat off. If call light does not go out, disconnect thermostat wires from appliance. If call light does go out, thermostat or wires are defective.		



Symptom	Possible Cause	Corrective Action	
Convection blower fails to	No call light.	Defective control box.	
start.	#1 snap disc defective.	Replace snap disc.	
	Blower not plugged in.	Check that blower is plugged into wire harness.	
	Blower is defective.	Replace blower.	
	Control box is defective.	Replace control box.	
Exhaust blower fails to start or does not shut off.	Blower not plugged in.	Check that blower is plugged into wire harness.	
	Blower is clogged with ash.	Clean exhaust system.	
	Blower is defective.	Replace blower.	
	Control box is defective.	Replace control box.	
Large, lazy flame, orange color. Black ash on glass.	Dirty appliance. Poor fuel quality, high ash content.	Clean appliance, including firepot, heat exchangers and venting system. Remove stainless steel baffle from firebox to clean ash from on top of baffle. Clean behind reabrick panels. Change fuel brand to premium.	
	Firepot clean-out plate not completely closed.	Check that firepot clean-out plate is fully closed.	
	Excessive amount of fuel.	Reduce feed rate using feed rate adjustment control rod located inside hopper.	
Nuisance shutdowns.	Low flame.	Increase feed by opening feed rate adjustment control rod located inside hopper.	
	Sawdust buildup in hopper.	Clean hopper, see page 33.	
	Feed motor is reversing.	Check for good connections between feed motor and wire harness.	
	Defective thermocouple.	Replace thermocouple.	
	Defective control box	Replace control box.	
	Firepot more than 1/2 full	See page 34 for detailed instructions for "High Ash Fuel Content Maintenance"	
Appliance calls for heat. Call light illuminates. Exhaust blower starts.	Thermocouple is defective or not properly plugged in.	Check connections on thermocouple or replace if defective. A flashing yellow light on the control box	
No feed or igniter.		indicates a problem with the thermocouple.	





Maintaining & Servicing Your Appliance

A. Proper Shutdown Procedure

此

A CAUTION

Shock and Smoke Hazard

- Turn down thermostat, let appliance completely cool and exhaust blower must be off. Now you can unplug appliance before servicing.
- Smoke spillage into room can occur if appliance is not cool before unplugging.
- Risk of shock if appliance not unplugged before servicing appliance.

C. General Maintenance

1. Types of Fuel

Depending on the type of fuel you are burning will dictate how often you have to clean your firepot.

If the fuel you are burning has a high dirt or ash content or you are burning shelled field corn, it may be necessary to clean the firepot more than once a day.

Dirty fuel will cause clinkers to form in the firepot. A clinker is formed when dirt, ash or a non-burnable substance is heated to 2000°F (1093°C) and becomes glass-like. See "D" page 34 in this section for more details on fuels with high ash content.

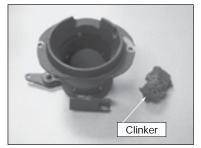


Figure 30.1 - Clinker

B. Quick Reference Maintenance Chart

Cleaning or Inspection	Frequency		Daily	Weekly	Monthly	Yearly
Ash Pan	Every 5 bags of fuel	OR		Х		
Ash Removal from Firebox	More frequently depending on the fuel type or ash build-up	OR		Х		
Beneath Heat Exchanger	Every 1 ton of fuel	OR			Х	
Blower, Combustion (Exhaust)	More frequently depending on the fuel type	OR				Х
Blower, Convection	More frequently depending on the fuel type	OR				Х
Door Latch Inspection	Prior to heating season	OR			Х	
Exhaust Path	More frequently depending on ash build-up	OR				Х
Firebox - Prepare for Non-Burn Season	At end of heating season	OR				Х
Firepot - Burning pellets	Every 3 bags	OR	Х			
Firepot - Burning Corn	Every 1 bag	OR	Х			
Glass	When clear view of firepot becomes obscure	OR		Х		
Heat Exchanger & Drop Tube	Every 1 ton of fuel	OR			Х	
Hopper	Every 1 ton of fuel or when changing fuel types	OR			Х	
Venting System	More frequently depending on the fuel type	OR				Х



2. Cleaning Firepot with Cleaning Rod & Firepot **Clean-Out Tool**

- Frequency: Daily or more often as needed
- By: Homeowner
 - a. The appliance must be in complete shutdown and cool and the exhaust blower off. NOTE: If you are just cleaning the firepot, there is no need to unplug the insert.
 - b. Pull firepot cleaning rod OUT and IN a couple of times to help shake debris loose. See Figure 42.2 on page 42.

If rod is hard to pull, it may be necessary to use your firepot clean-out tool to chip away material that has built up on the bottom plate of the firepot and to push out any clinkers. Larger clinkers may have to be removed from the top of the firepot. Corn clinkers can be especially difficult to break up.

c. The firepot floor plate must be fully closed when finished. See Figure 26.1 on page 26.

3. Ash Removal from Firebox

- Frequency: Weekly or more frequently depending on ash build-up
- By: Homeowner
 - a. There must not be any hot ashes in the firebox during cleaning so allow the appliance to completely cool. Frequent cleaning of the ash in the firebox will help slow down the build-up of ash in the exhaust blower and vent system.
 - b. Plug in your appliance, if unplugged, and turn the thermostat on and immediately shut it off to start the exhaust blower on its cycle time. It will pull fly ash out the exhaust instead of into the room.
 - c. Open door. There are 2 cleaning slide plates to the left and right of the firepot with finger holes. Pull both slide plates out and sweep the remaining ash from the firebox into the 2 open holes. A paint brush works well for this. Close slide plates.
 - d. This ash is deposited in the same ash drawer as the firepot debris. The ash drawer should be emptied every time you clean the firebox. Remember to place the ash and debris into a metal or non-combustible container.
 - e. The 2 cleaning slide plates must be fully closed when cleaning is complete.

WARNING

Fire Risk.

The cleaning slide plates must be fully CLOSED when appliance is operating. Hot pellets may fall into ash pan and start a fire.

4. Cleaning Ash Drawer

- Frequency: Weekly or every 5 bags of fuel
- By: Homeowner

Locate the ash drawer underneath the firepot and slide the ash drawer straight out. Empty into a noncombustible container and re-install ash drawer.

5. Disposal of Ashes

- Frequency: As needed
- By: Homeowner

Ashes should be placed in a metal container with a tight-fitting lid. The closed container of ashes should be placed on a non-combustible floor or on the ground, well away from all combustible materials, pending final

If the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have been thoroughly cooled.



AL WARNING

Disposal of Ashes

- Ashes should be placed in metal container with tight fitting lid.
- Ashes should be retained in closed container until all cinders have thoroughly cooled.



WARNING

Fire Risk

NEVER pull firepot cleaning rods or cleaning slide plates when appliance is operating. Hot pellets may fall into ashpan and may start a fire or have mis-starts due to lack of vacuum.



6. Cleaning Heat Exchanger Chambers

- Frequency: Weekly or every 1 ton of fuel
- By: Homeowner

The amount of ash buildup in the firebox will be a good guide to determine how often you should clean the heat exchangers.

- a. Allow the appliance to completely cool down before pulling the cleaning rods. Turn the thermostat on and then immediately off to start the exhaust blower on its cycle time. It will pull fly ash out the exhaust instead of into the room.
- b. Locate the 2 exposed rods directly underneath the heat exchanger tubes. **Figure 32.1.**
- c. To clean, pull the rods straight out until it stops, approximately 8 inches (203mm). Slide the rods OUT and IN a couple of times.

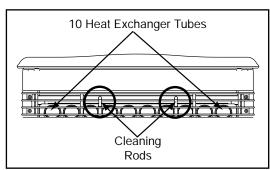
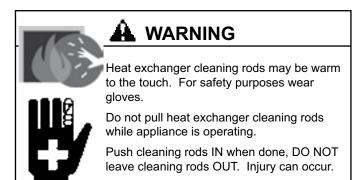


Figure 32.1



7. Cleaning Beneath Heat Exchanger

- Frequency: Monthly or every 1 ton of fuel
- By: Homeowner

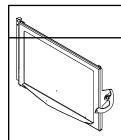
A more thorough cleaning is needed to remove the excess ash that is left behind from the use of the cleaning rods for the heat exchanger tubes. The ash will be resting on the back of the baffle.

This will require removing the baffle and cast brick set. Please refer to **pages 37-38** for a detailed explanation of removing the baffle and brick set.

NOTE: There are heavy duty vacuum cleaners specifically designed for solid fuel appliance cleaning.

8. Cleaning the Glass

- Frequency: When clear view of the firepot is obscure
- By: Homeowner
 - Appliance must be completely cool before cleaning glass.
 - b. Use a damp paper towel or any non-abrasive glass cleaner. Wipe off with dry towel.

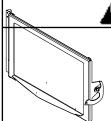


CAUTION

Handle glass assembly with care.

When cleaning glass:

- Avoid striking, scratching or slamming glass.
- Do NOT clean glass when hot.
- Do NOT use abrasive cleaners.
- · Use a hard water deposit glass cleaner on white film.
- · Refer to maintenance instructions.



WARNING

Handle glass with care.

- Inspect the gasket to ensure it is undamaged.
- Do NOT strike, slam or scratch glass.
- Do NOT operate appliance with glass assembly removed.
- Do NOT operate with glass cracked, broken or scratched.

9. Door Latch Inspection

• Frequency: Prior to heating season

• By: Homeowner

The door latch is non-adjustable but the gasketing between the glass and firebox should be inspected periodically to make sure there is a good seal.

NOTE: There is no gasket on the bottom of glass.



10. Cleaning the Hopper

- Frequency: Monthly or every 1 ton of fuel
- By: Homeowner

After burning approximately 1 ton of fuel you will need to clean the hopper to prevent sawdust build-up. A combination of sawdust and pellets on the auger reduces the amount of fuel supply to the firepot. This can result in nuisance shutdowns and mis-starts.

- 1. The appliance must be in complete shutdown. Allow the appliance to completely cool down.
- 2 Empty the hopper of any remaining pellets.
- 3. Vacuum the hopper and feed tube.

11. Cleaning Exhaust Blower - Requires No Lubrication

- Frequency: Yearly or as needed
- By: Quality Service Technician/Homeowner
 - a. Remove left & right brick. The exhaust blower is behind the right brick. Vacuum this area thoroughly. See pages 37 & 38 for removing bricks. Re-install bricks when done.

12. <u>Cleaning Convection Blower - Requires No Lubrication</u>

- Frequency: Yearly or as needed
- By: Qualified Service Technician
- Task: Contact your local dealer.

13. <u>Soot and Fly Ash: Formation & Need for Removal in Exhaust Venting System.</u>

- Frequency: Yearly or more frequently depending on ash build-up
- By: Qualified Service Technician/Homeowner

The products of combustion will contain small particles of fly ash. The fly ash will collect in the exhaust venting system and restrict the flow of the flue gases. At start-up if there is incomplete combustion, or if there is a shutdown or incorrect operation of the appliance it will lead to some soot formation. This will collect in the exhaust venting system.

The venting system may need to be cleaned at least once a year or more often depending upon the quality of your fuel or if there is a lot of horizontal pipe sections. Ash will build up more quickly in the horizontal sections.

14. Preparing Firebox for Non-Burn Season

- Frequency: At the end of the heating season
- By: Homeowner
 - a. Be sure the appliance is allowed to cool, has been unplugged and the exhaust blower is off.
 - b. Remove all ash from the firebox and vacuum thoroughly.
 - c. Paint all exposed steel, including cast-iron.
 - Use the Touch-Up paint supplied with the appliance; or.
 - · Purchase paint from your local dealer.
 - Must use a high-temperature paint made specificially for heating appliances.



D. High Ash Fuel Content Maintenance

- Frequency: When the ash build-up exceeds more than half way up the firepot.
- By: Homeowner

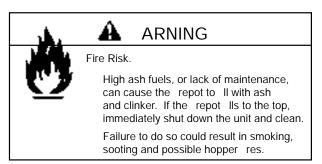
Poor quality pellet fuel, or lack of maintenance, can create conditions that make the firepot fill quickly with ashes and clinkers.

This condition makes the appliance susceptible to overfilling the firepot with pellets which may result in smoking, sooting and possible hopper fires. **Figure 34.1** shows an example where the firepot overfills, pellets back up into the feed tube and ash has accumulated in the firebox.

An inefficient and non-economical method of burning of fuel caused by poor quality pellet fuel is shown in **Figure 34.2**.

The correct flame size when good quality, premium pellet fuel is burned is shown in **Figure 34.3**.

If the ash buildup exceeds the half way point in the firepot IMMEDIATE ATTENTION AND CLEANING IS REQUIRED.



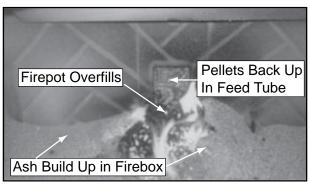


Figure 34.1

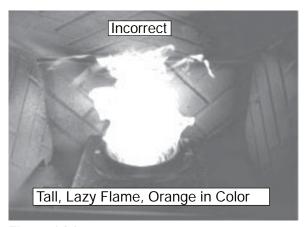


Figure 34.2

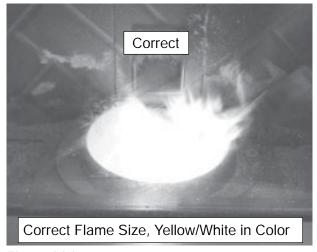


Figure 34.3



E. Blower Replacement

1. Combustion (Exhaust) Blower Replacement

- a. Remove panel set and disconnect flue.
- b. Pull appliance out onto the hearth.
- c. Remove right access panel and then slide out right side panel of appliance, held in place with 2 screws, to expose the exhaust blower.
- d. Disconnect the white and blue wires from the blower.
- e. Remove blower mounting screws (not housing bolts), Figure 35.2, from blower housing and remove blower. The replacement blower is shipped with a housing. If you do not need the housing, discard it. If you do need to the replace the housing you will also need to replace the gasket. See Service Parts on pages 44-45 for the part number.
- f. Re-install in reverse order.

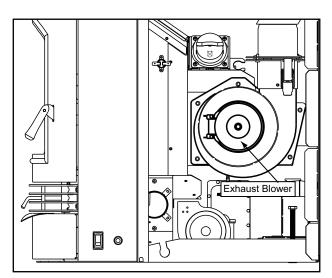


Figure 35.1

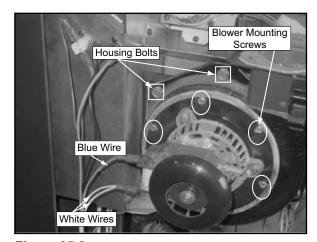


Figure 35.2

2. Convection Blower Replacement

- a. The blower is located at the bottom rear of the insert. If an outside air kit is also installed, you will first need to remove the outside air flange by removing the 2 screws using a Phillips head screwdriver. You do not need to remove the flex pipe from the flange.
- b. Remove panel set and disconnect flue.
- c. Pull appliance out onto the hearth.
- d. Remove left access panel and then slide out left side panel of appliance to expose the convection blower. Loosen wing nut on the vacuum switch and remove vacuum switch to allow room to remove the blower.
- e. Disconnect the wires from the blower. The wires coming from the wiring harness are purple & white and the wires from the blower are black.
- f. The blower is held in place with a magnet. A wing nut and plate are installed at the factory for shipping purposes only. This can be removed once the appliance is installed. Lift up blower from the magnet and remove.
- g. Re-install in reverse order.

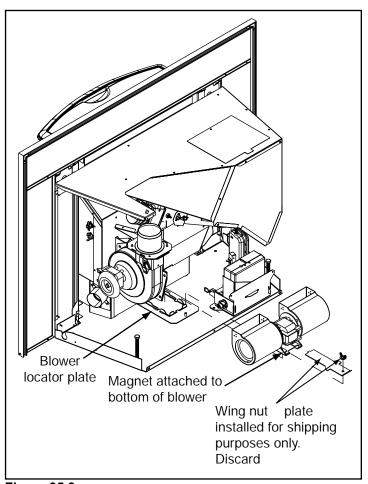


Figure 35.3



F. Igniter Replacement

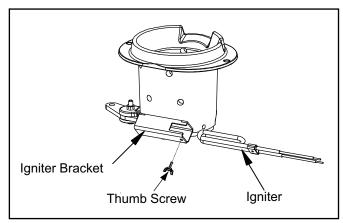


Figure 36.1

- a. Shut down the appliance by turning down the thermostat and let the appliance completely cool down. After the appliance has cooled down, unplug it and remove the ash drawer.
- b. The wire leads to the igniter are connected to the wire harness with 1/4 inch (6mm) male / female spade connectors. These wires will pull forward approximately 4 to 5 inches (102mm to 127mm) through the grommet at the back of the ash drawer chamber. Disconnect the spade connections and remove the igniter from the chamber. Loose the thumb screw and slide igniter out.
- c. Install new igniter into the chamber and tighten the thumb screw. Re-connect the wires to the 2 leads with the spade connectors.
- d. Push excess wire leads back through the grommet, one wire at a time, to take-up the 4 to 5 inches (102mm to 107mm) previously pulled out. This will keep the wires out of the way of the ash drawer. Double check that the igniter wires are clear of any movement, i.e. ash drawer, firepot cleaning rod, cleaning slide plates, etc.
- f. Re-install the ash drawer and then re-install the side panel and re-connect the power.

G. Glass Replacement

A WARNING



- Glass is 5mm thick high temperature heatresistant ceramic glass.
- DO NOT REPLACE with any other material.
- Alternate material may shatter and cause injury
- a. The door handle and face must be removed first. Follow instructions found on page 19.
- Remove door from the insert and lay on a flat surface face down.
- c. Using a screwdriver, tap the bottom of the rope retainer rod to push it up out of the hole. The top end of the rod will slide up. Swing the rod toward you from the bottom and remove the rod. Repeat for other side.
- d. Remove old glass and replace with new glass.
- e. Slide the retainer rod into the top hole first, and then line up the bottom crimped end with the hole in the door. The crimped end must be parallel with the glass in order to insert it into place. **Figure 36.2.**

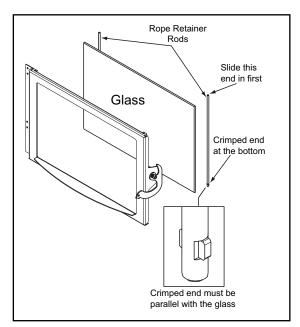


Figure 36.2



H. Baffle & Brick Set Removal

- 1. Follow proper shutdown procedures in Section 10.
- 2. The top baffle has a hook on the bottom left side that rests on the top lip of the cast brick. There is a tab on the bottom right side that hooks into the side bracket. Remove the top baffle by first pulling the baffle forward until back edge drops down. Then slide baffle back until the front edge clears the shelf that it had been resting on. Figure 37.1.
- 3. The top baffle must be removed before you can remove the right and left brick. Remove the right brick by holding top lip of brick and lifting up, then push outside edge back. Slide brick to the right until it is flush with the firebox. Rotate the inside edge of the brick forward and remove brick. Repeat for left brick. Figure 37.2.

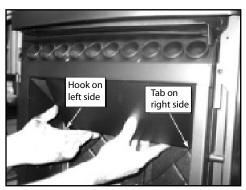


Figure 37.1

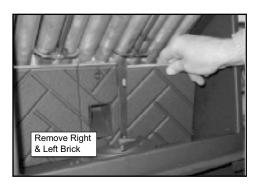


Figure 37.2

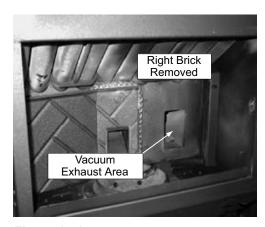


Figure 37.3

Re-installing Baffle & Brick Set

- 1. Place right brick in behind the right bracket, and then slide to the left so the tabs are behind the center brick. **Figure 37.4.**
- 2. The brick will be flush against the back wall and notches exposed in the side bracket. **Figure 37.5.**
- 3. Lift slightly and pull the right edge of the brick forward until it stops and then drops down into both top and bottom notches of right bracket and locks into place. **Figures 37.1 and 37.2.**
- 4. Repeat for left brick.
- 5. Insert baffle into top front inside the firebox and pull forward. Then raise up the bottom end and insert baffle tab into slot on the top of the right bracket to lock into place. Figure 37.3. Place the left side hook at the bottom of the baffle over the top edge of brick for stability. Figure 37.4.
- 6. The baffle does not completely cover the top of the firebox. There is an opening on the left as shown in **Figure 37.5.**

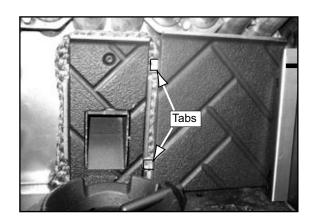


Figure 37.4

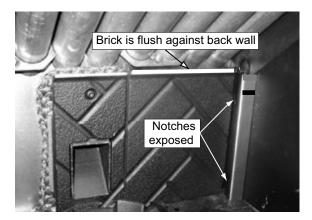


Figure 37.5

Re-installing Baffle & Brick Set (Cont'd)

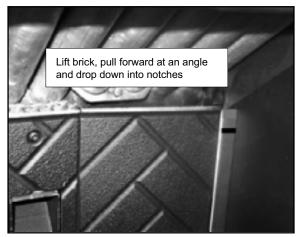


Figure 38.1



Figure 38.2

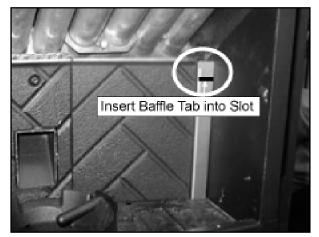


Figure 38.3

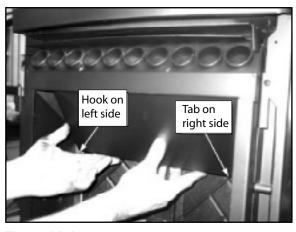


Figure 38.4



Figure 38.5



11

Reference Materials



A. Component Function

1. Control Box

- a. The control box is located on lower left side of appliance, on top of the junction box.
- b. There is a light located inside of the control box. The internal light will turn green when the appliance has reached a temperature of 200°F (93°C) in the firepot. and will turn red when it reaches 600°F (315°C).
- c. There is also an internal blue light located in the upper left corner of the control box. When you plug in the appliance the blue light will automatically start blinking 6 blinks every 10 seconds for 60 seconds and then will stop.

NOTE:

Do **NOT** open the control box. This will void the warranty. If you need to plug in or remove the control box you must first **unplug the appliance**.

2. Convection Blower

The convection blower is mounted at the bottom rear of the appliance. There are 2 impellers, one on each side of the motor. The convection blower pushes heated air through the heat exchange system into the room.

3. Exhaust Blower

The exhaust blower is mounted on the right side of the appliance behind the right side panel. The exhaust blower is designed to pull the exhaust from the appliance and push it out through the venting system.

4. Feed System

The feed system is located behind the firebox and can be removed as an entire assembly. The assembly includes the feed motor, mounting bracket, bearing and feed spring (auger). The hollow feed spring (auger) pulls pellets up the feed tube from the hopper area and drops them down the feed chute into the firepot.

5. Firepot

The firepot is made of high quality ductile iron and has a cleaning pull-out rod. The floor of the firepot opens for cleaning when you pull out the rod. Be sure that the floor returns to a completely closed position or your appliance will not operate properly.

Fuse

The fuse is located on the side of the junction box above the red call light. The fuse will blow should a short occur and shut off power to the appliance.

When describing the location of a component part it is always AS YOU FACE THE FRONT OF THE APPLIANCE.

7. Heat Exchangers

The heat exchangers transfer heat from the exhaust system into convection air. There are 2 clean out rods located under the heat exchangers.

8. Heat Output Switch

The heat output switch is located on the lower right side of firebox, in front of the right access panel and to the left of the reset button. The function of the heat output switch is to regulate the burn rates; low, medium and high settings.

9. <u>Igniter</u>

The igniter is mounted on the base of the firepot. Combustion air travels over the red hot igniter creating super heated air that ignites the pellets.

10. Junction Box And Wiring Harness

The junction box is located on the lower left side of the appliance, behind the left front access panel. The junction box and wiring harness are replaced as one component.

11. Power Supply

The power outlet is located on the lower left side of the appliance on the front of the junction box. Check the wall receptacle for 120 volt, 60 Hz (standard current). Make sure the outlet is grounded and has the correct polarity. A good surge protector is recommended. When operating with a generator you need a least 600 watts of power, or with an inverter at least 800 watts of power available for the appliance during the start cycle.

12. Red Call Light

The red call light is on the side of the junction box underneath the fuse. The function of the red call light is to indicate that the thermostat is calling for heat.

13. Reset Button

The reset button is located on the lower right side of firebox in front of the right access panel and to the right of the heat output control switch. The function of the switch is to momentarily open the thermostat circuit, which restarts the system.

14. Thermocouple

The thermocouple is located on top of the firepot inside the thermocouple cover (ceramic protection tube). The thermocouple sends a millivolt signal to the control box indicating the preset temperatures of the green and red lights have been obtained.

15. Thermostat

The appliance is designed to run on a 12 volt AC thermostat. The heat anticipator, if present, should be set on the lowest setting available.



16. Snap Disc #1 (Convection Blower) 110°F

Snap disc #1 is located on the right side of the firebox. There are 2 purple wires connected to it. This snap disc turns the convection blower on and off as needed. Power is always present at snap disc #1.

17. Snap Disc #2 (Fuel Delivery Interrupt) 250°F

Snap disc #2 is located on the back side of the feed drop tube. (see Figure 41.2 on page 41). There is 1 orange wire and 1 black wire connected to it. This snap disc will turn off the feed system, which will turn off the appliance if an overfire condition should occur or if the convection blower should fail to operate. If this occurs the snap disc with automatically reset itself.

18. Snap Disc #3 (Burn Back Protector) 250°F

Snap disc #3 is mounted on the back of the auger tube in the center of the appliance and has a reset button. To access it remove the right side panel. If the fire tries to burn back into the feed system or push exhaust up the feed tube, this snap disc will shut the entire system off. This disc must be manually reset.

19. Vacuum Switch

The vacuum switch is located on the lower left side of the appliance behind left access panel. This switch turns the feed system on when vacuum is present in the firebox. The vacuum switch is a safety device to shut off the feed motor if the exhaust or the heat exchanger system is dirty or plugged or if the firebox door is open.

20. Wiring Harnes

See Figure 40.1 below

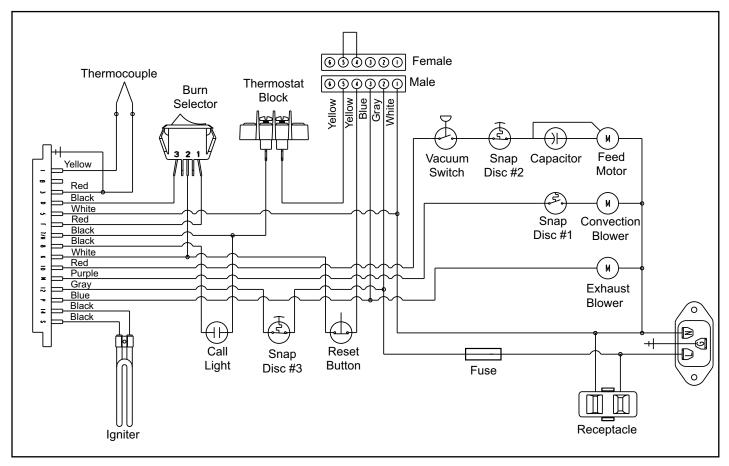


Figure 40.1



B. Component Locations

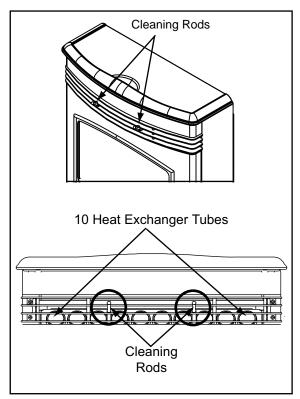


Figure 41.1 - Cleaning Rods & Heat Exchanger Tubes

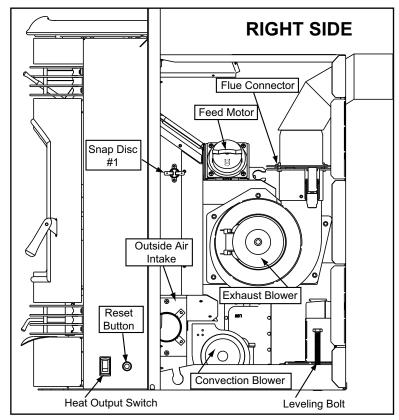


Figure 41.3 - Component Locations - Right Side

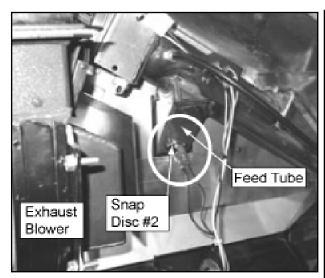


Figure 41.2 - Snap Disc #2 located on back of Feed Tube.

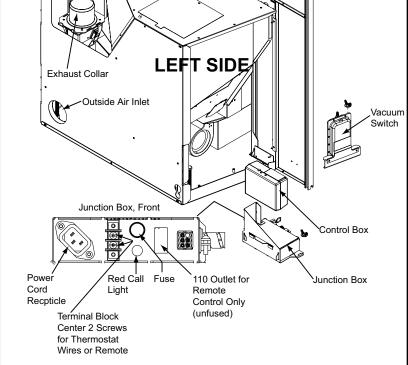


Figure 41.4 - Component Locations - Left Side



C. Exploded Views

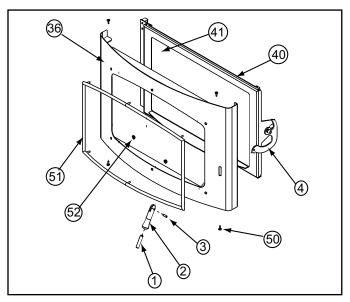


Figure 42.1 - Door, Face, Glass, Trim & Handle Assembly

Item	Description	Part Number
1	Set Screw	7000-101
2	Door Handle, Black Nickel	7019-174
3	Pin	7000-229
4	Door Latch Assembly	7019-015
36	Face Assembly	7019-028
40	Door Assembly	7019-013
41	Glass	7001-038
50	Screws, SMS, #8 x 1/2 S-Grip (4)	12460
51	Door Trim, Nickel Door Trim, Gold Door Trim, Black Nickel	DT-SF-NL DT-SF-GD DT-SF-NB
52	Nut Keps Lock, 8-32, for door trim, (6)	226-0060

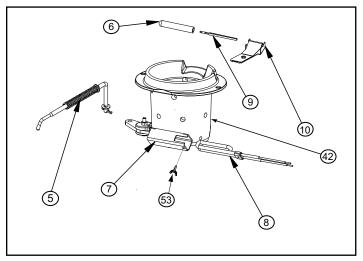


Figure 42.2 - Firepot Assembly

Item	Description	Part Number		
5	Firepot Pull Cleaning Rod	7019-009		
6	Thermocouple Cover	812-1322		
7	Igniter Bracket	Not Replaceable		
8	Igniter	SRV7000-226		
9	Thermocouple	812-4470		
10	Thermocouple Clamp	7001-203		
42	Firepot	414-5200		
53	Thumb Screw	7000-223/24		

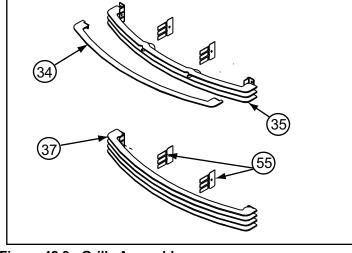


Figure 42.3 - Grille Assembly

Item	Description	Part Number
34	Grille, Scraper Bar, Black	7019-119
34	Grille, Scraper Bar, Gold	7019-161
34	Grille, Scraper Bar, Nickel	7019-164
34	Grille, Scraper Bar, Black Nickel	7019-191
35	Grille, Upper, 3 pc, Black	7019-007
35	Grille, Upper, 3 pc, Gold	7019-159
35	Grille, Upper, 3 pc, Nickel	7019-162
35	Grille, Upper, 3 pc, Black Nickel	7019-180
37	Grille, Lower, 4 pc, Black	7019-008
37	Grille, Lower, 4 pc, Gold	7019-160
37	Grille, Lower, 4 pc, Nickel	7019-163
37	Grille, Lower, 4 pc, Black Nickel	7019-190
55	Grille Bracket Cover	7019-100



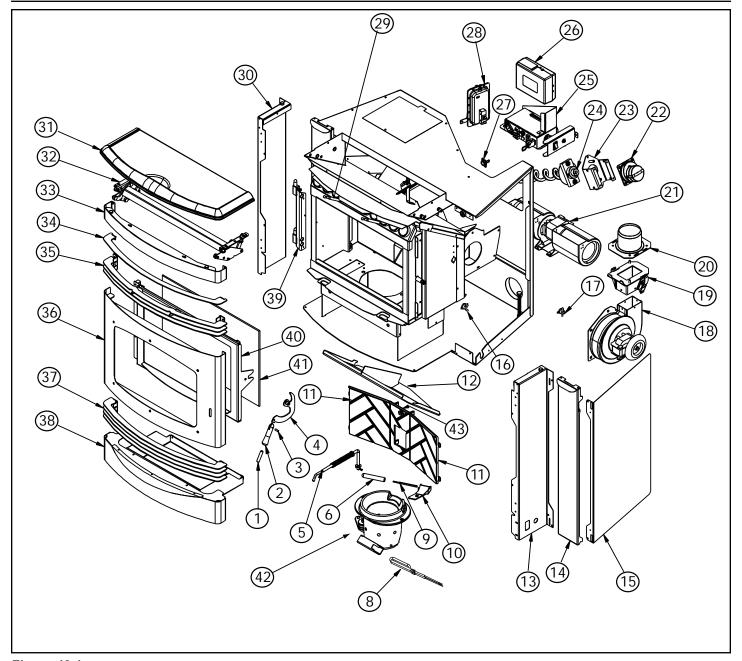


Figure 43.1

#	Description	#	Description	#	Description	#	Description
1	Set Screw, Door Handle	13	Face, Right	24	Feed Spring Assy	34	Grille Bar, Scraper
2	Door Handle, Blk NL	14	Access Panel	25	Junction Box & Wire Hrns	35	Grille Assy, Upper
3	Pin 3/16 x 1/2	15	Outer Skin Side	26	Control Box	36	Face Assy
4	Door Latch Assembly	16	Snap Disc #3	27	Snap Disc #2	37	Grille Assy, Lower
5	Firepot Pull Clning Rod	17	Snap Disc #1	28	Vacuum Switch	38	Ash Drawer
6	Thermocouple Cover	18	Blower, Exhaust	29	Scraper Cleaning Rods	39	Door Hinge
8	Igniter	19	Exhaust Transition		not sold separately	40	Door Assy
9	Thermocouple	20	Flue Collar	30	Face, Left	41	Glass Assy
10	Thermocouple Clamp	21	Blower, Convection	31	Hopper Lid	42	Firepot, EZ Clean
11	Brick, Left & Right	22	Feed Motor	32	Hopper Lid Hinge Assy	43	Brick, Center
12	Baffle	23	Feed Motor Bracket	33	Face, Top		



D. Service Parts and Accessories

IMPORTANT: THIS IS DATED INFORMATION. The most current information is located on the Quadra-Fire web site at **www.quadrafire.com**. When ordering, supply serial and model numbers to ensure correct service parts.

Item No.	Service Parts, Alphabetical Order	Part No.	
14	Access Panel Left and Right (interchangeable)	7019-025	
38	Ash Drawer	7019-006	
12	Baffle Assembly	UK-30KPEL	
	Bearing, Feed System, Nylon	410-0552	
18	Blower, Exhaust with Housing & Gasket	812-4400	
21	Blower, Convection, Motor Only with Spade Terminals & Magnet	812-4900	
11	Brick, Cast Left & Right Sides (interchangeable)	414-0270	
43	Brick, Cast, Center	414-0260	
	Component Pack (includes firepot clean-out tool, power cord with terminal, thermostat harness & manual, hose grommet, warranty card, owner's manual and "How-To-Operate" DVD).	7019-010	
26	Control Box, 3 speed	SRV7000-205	
40	Door Assembly	7019-013	
39	Door Hinge Assembly	SRV7019-014	
2	Door Handle, Black Nickel	7019-174	
4	Door Latch Assembly	7019-015	
3	Door Pin 3/16 x 1/2	7000-229	
	Door Handle Assembly (includes handle, set screw & pin)	SRV7019-037	
19	Exhaust Transition Assembly	414-5100	
36	Face Assembly	7019-028	
30	Face, Left Side	SRV7019-117	
13	Face, Right Side	SRV7019-116	
33	Face, Top	7019-030	
23	Feed Motor Bracket	7001-039	
22	Feed Motor with Capacitor	812-4421	
24	Feed Spring Assembly	SRV7001-046	
	Firepot Clean-Out Tool	414-1140	
42	Firepot, EZ Clean	SRV414-5200	
5	Firepot Pull Rod, Black Nickel	7019-009	
20	Flue Collar Assembly	7019-031	
	Fuse, 7 amp, Junction Box	812-0380	
	Fuse, .8 amp, Control Box	812-3780	
	Gasket, between center brick firebox	842-2350	
	Gasket, Tadpole, 10 feet, Door	842-5130	
	Gasket, Firepot	240-0930	
	Gasket, Flue Collar	240-0850	
41	Glass Assembly with Gasketing (Tape)	7001-038	
34	Grille Bar, Upper, for Scraper Rod, 1 piece	see page 42	
35	Grille, Upper, Assembly, 3 pieces	see page 42	
37	Grille, Lower, Assembly, 4 pieces	see page 42	
	Grille Bracket Covers, order quantity needed	7019-199	
	Heat Output Control Switch (Rocker Switch)	812-3500	
31	Hopper Lid	7019-145	



Item No.	Service Parts, Alphabetical Order	Part No.
32	Hooper Lid Hinge Assembly	7019-023
8	Igniter, Loop (Heating Element)	SRV7000-462
25	Junction Box & Wire Harness	7019-166
	Log, Front, Right	7001-230
	Log, Front, Left	7001-231
	Log, Rear, Right	7001-232
	Log Rear, Left	7001-233
	Log, Top	811-0900
15	Outer Skin, Left & Right (interchangeable)	7019-100
	Power Cord	812-1180
	Scraper Repair Kit	SCRAPER-SFI
1	Screw 5/16-18 x 1-1/2 SH, Door Handle Set Screw, Pkg of 24	7000-101/24
17	Snap Disc, #1, 110°F., Convection Blower	230-1220
27	Snap Disc, #2, 250°F., Fuel Delivery Interrupt, Automatic Reset	SRV7000-268
16	Snap Disc, #3, 250°F., Burn Back Protector, Manual Reset	230-1290
9	Thermocouple, 14 inches	812-4470
10	Thermocouple Clamp	7001-203
6	Thermocouple Cover	812-1322
53	Thumb Screw for Igniter, Pkg of 24	7000-223/24
	Trim Only, Panel, Small, Black Nickel, Set	7019-026
	Trim Only, Panel, Small, Gold, Set	811-0710
	Trim Only, Panel, Large, Black Nickel, Set	7019-027
	Trim Only, Panel, Large, Gold, Set	250-4660
28	Vacuum Switch, Rectangular	SRV7000-447

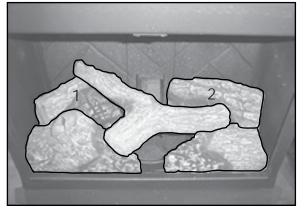


Figure 45.1

Item	Description	Part Number
1	Log, Rear, Left	7001-230
2	Log, Rear, Right	7001-231
3	Log, Front, Left	7001-132
4	Log, Front Right	7001-233
5	Log, Top (Optional)	811-0900



Item No.	Accessories, Alphabetical Order	Part No.			
	Log Set, 4 piece	811-0852			
	Log, Top, 1 piece				
	Outside Air Kit	811-0872			
	Thermostat, Mechanical	812-3760			
	Thermostat, Programmable	811-0520			
	Panel & Trim, Small, 30 h x 40 w, Black Nickel	SP-SFI3040-NB			
	Panel & Trim, Small, 30 h x 40 w, Gold	SP-SFI3040-GD			
	Panel & Trim, Large, 33 h x 50 w, Black Nickel	SP-SFI3350-NB			
	Panel & Trim, Large, 33 h x 50 w, Gold	SP-SFI3350-GD			
	Trim for Door, Black Nickel	DT-SF-NB			
	Trim for Door, Nickel	DT-SF-NL			
	Trim for Door, Gold	DT-SF-GD			
	Grille Upper & Lower Assembly, Black Nickel	GRL-SFI-NB			
	Grille Upper & Lower Assembly, Nickel	GRL-SFI-NL			
	Grille Upper & Lower Assembly, Gold	GRL-SFI-GD			
	Remote Control, Smart Stat II	841-0960			

Item No.	Appliance	Part No.
	Santa Fe Pellet Insert, Black Grilles	SANTAFEI-B



E. Service And Maintenance Log

Date of Service	Performed By	Description of Service
<u> </u>	l	



E. Service And Maintenance Log (Cont'd)

Date of Service	Performed By	Description of Service
	, , , , , , , , , , , , , , , , , , , ,	****



F. Homeowner's Notes



G. Warranty Policy

Hearth & Home Technologies LIMITED WARRANTY

Hearth & Home Technologies ("HHT") and its respective brands extends the following warranty for HHT gas, wood, pellet and electric appliances purchased from an authorized HHT dealer and installed in the United States of America or Canada. Warranty starts with date of purchase by the original owner (End User) except as noted for replacement parts.

Warrant	y Period		HHT Manu	factured Ap	opliances a	nd Venting		
Parts	Labor	Gas	Wood	Pellet	Wood	Electric	Venting	Components Covered
			ı					All Davis and Matarial Everant
								All Parts and Material Except
1 Y	'ear	X	X	X	X	X	X	as covered by Conditions,
								Exclusion, and Limitations
								listed
								Igniters, Electronic Compo-
				Х	Х			nents, and Glass
2 ye	ears	Χ	X	Χ	Х			Blowers
			X					Molded Refractory Panels
				\ <u>\</u>				F: ,
3 ye	ears			Х				Firepots
5 years	3 years			Х	Х			Castings & Baffles
o youro	o youro							Cacingo a Banico
7 vooro	2 vooro		Х	Х	Х			Firebox, HHT Chimney, Termi-
7 years	3 years			^				nation & Heat Exchanger
10								
vears	1 year	Χ						Burners, Logs & Refractory
ycars								Barriers, Logs & Nerradiory
Linaita	4	V						
Limited	1 year	Х						Finaless O. Hant Freeless non
Lifetime Firebox & Heat Exchanger								
90 [90 Days X			Х	Х	Х	Х	All Replacement Parts
	See Conditions, Exclusions, and limitations. 9-01-08							

CONDITIONS, EXCLUSIONS & LIMITATION OF LIABILITY

- This warranty applies to the original owner and is transferable up to two years from date of purchase to the new homeowner, provided the purchase was made through an authorized dealer or distributor of HHT, and the appliance remains in its original place of installation.
- The maximum amount recoverable under this warranty is limited to the purchase price of the product.
- In no event shall HHT be liable for any incidental or consequential damages caused by defects in the product.
- Adjustments, regular maintenance, cleaning and temporary repairs, or the failure to duplicate the problem in the home is not covered under this warranty.
- This limited warranty does not extend to or include surface finish on the appliance or terminations, door gasketing, glass gasketing, glass discoloration, firebrick, pellet logs, kaowool or other ceramic insulating materials. Rust and/or corrosion on any of the metal surfaces, cast iron components, baffles, firepots, doors, or firebox area are not covered by this warranty.
- Noise resulting from minor expansion, contraction, or movement of certain parts is normal and complaints related to this noise are not covered by this warranty.



Hearth & Home Technologies LIMITED WARRANTY (Cont'd)

- HHT's obligation under this warranty does not extend to damages resulting from: (1) installation, operation or maintenance of the appliance not in accordance with the installation instructions; operating instructions and the listing agent identification label furnished with the appliance; (2) installation which does not comply with local building codes; (3) shipping, improper handling, improper operation, abuse, misuse, accident or unworkmanlike repairs; (4) environmental conditions, inadequate ventilation or drafting caused by tight sealing construction of the structure or handling devices such as exhaust fans or forced air furnaces or other such causes; (5) use of fuels other than those specified in the operating instructions; (6) installation or use of components not supplied with the appliance or any other components not expressly authorized and approved by HHT; and/or (7) modification of the appliance not expressly authorized and approved by HHT in writing.
- This warranty does not apply to non-HHT venting components, hearth components or other accessories used in conjunction with the installation of this product.
- This warranty is void if the appliance has been over-fired or operated in atmospheres contaminated by chlorine, fluorine, or other damaging chemicals the appliance is subject to prolonged periods of dampness or condensation, or there is any damage to the appliance or other components due to water or weather damage which is the result of, but not limited to, improper chimney or venting installation.
- HHT's liability under this warranty is limited to the replacement and repair of defective components or workmanship
 during the applicable period. HHT may fully discharge all of its obligations under such warranties by repairing the
 defective component(s) at HHT's discretion. Shipping costs are not covered under this warranty.
- Some states do not allow exclusions or limitation of incidental or consequential damages, so those limitations may not apply to you. This warranty gives you specific rights; you may also have other rights, which vary from state to state.
- EXCEPT TO THE EXTENT PROVIDED BY LAW, HHT MAKES NO EXPRESS WARRANTIES OTHER THAN THE WARRANTY SPECIFIED HEREIN. THE DURATION OF ANY IMPLIED WARRANTY IS LIMITED TO DURATION OF THE WARRANTY SPECIFIED ABOVE.

This Limited Warranty is effective on all HHT appliances sold after September 01, 2008 and supersedes any and all warranties currently in existence.

If warranty service is needed, you should contact your installing dealer. If the installing dealer is unable to provide necessary parts or components, contact the nearest authorized HHT dealer or supplier.



OTTOTO:

Hearth & Home Technologies 1445 North Highway Colville, WA 99114 **Division of HNI INDUSTRIES** www.quadrafire.com

Please contact your Quadra-Fire dealer with any questions or concerns. For the number of your nearest Quadra-Fire dealer visit our website at www.quadrafire.com

NOTICE

DO NOT DISCARD THIS MANUAL



Important operating and • maintenance instructions included.

- follow these instructions for safe installation and operation.
- Read, understand and Leave this manual with party responsible for use and operation.





We recommend that you record the following pertinent information for your SANTA FE PELLET INSERT

Date purchased/installed:	
Serial Number:	Location on appliance:
Dealership purchased from:	Dealer phone:
Notes:	

This product may be covered by one or more of the following patents: (United States) 4593510, 4686807, 4766876, 4793322, 4811534, 5000162, 5016609, 5076254, 5113843, 5191877, 5218953, 5263471, 5328356, 5341794, 5347983, 5429495, 5452708, 5542407, 5601073, 5613487, 5647340, 5688568, 5762062, 5775408, 5890485, 5931661, 5941237, 5947112, 5996575, 6006743, 6019099, 6048195, 6053165, 6145502, 6170481, 6237588, 6296474, 6374822, 6413079, 6439226, 6484712, 6543698, 6550687, 6601579, 6672860, 6688302B2, 6715724B2, 6729551, 6736133, 6748940, 6748942, 6769426, 6774802, 6796302, 6840261, 6848441, 6863064, 6866205, 6869278, 6875012, 6880275, 6908039, 6919884, D320652, D445174, D462436; (Canada) 1297749, 2195264, 2225408, 2313972; (Australia) 780250, 780403, 1418504 or other U.S. and foreign patents pending.

